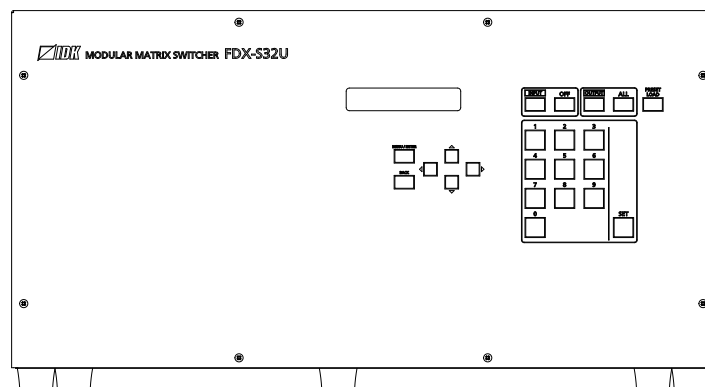
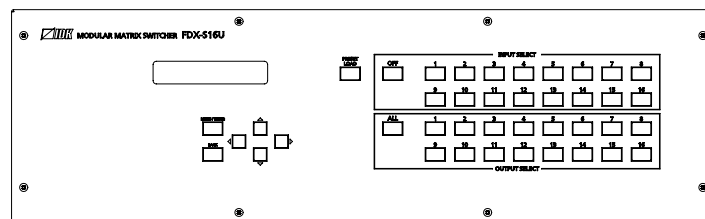


Modular Matrix Switcher

FDX-S Series

FDX-S08U/S16U/S32U/S64U
<Command Reference Guide>

Ver.4.10.0



- Thank you for choosing our product.
- To ensure the best performance of this product, please read this user guide fully and carefully before using it and keep this manual together with the product for future reference as needed.

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Before reading this manual

- All rights reserved.
- Some information contained in this Command guide such as exact product appearance, communication commands, and so on may differ depending on the product version.
- This Command guide is subject to change without notice. You can download the latest version from IDK's website at: www.idkav.com

The reference manual consists of the following two volumes:

- User guide: Please download the User guide from the website above.
Provides explanations and procedures for operations, installation, connections among devices, I/O adjustment and settings.
- Command guide (this document):
Provides explanations and procedures for external control using RS-232C and LAN communications.

Table of Contents

1	About this Guide	5
2	Communication configuration and Specifications	5
2.1	RS-232C communication	5
2.1.1	RS-232C connector specification	5
2.1.2	RS-232C communication specification	5
2.1.3	Setting up RS-232C communication	6
2.1.4	RS-232C transmission mode	7
2.2	LAN communication	9
2.2.1	LAN connector specification	9
2.2.2	LAN communication specification	9
2.2.3	Setting up LAN communication	10
2.2.4	The number of TCP-IP connections	11
2.2.5	LAN transmission mode	12
2.3	Unsolicited status notification	14
2.3.1	UDP	14
2.3.2	TCP and RS-232C	15
3	Command	16
3.1	Board channel configuration	16
3.2	Summary	17
3.3	Command list	18
3.4	Details of commands	22
3.4.1	Error status	22
3.4.2	I/O channel selection	22
3.4.3	Output position, size, and masking	24
3.4.4	Output	35
3.4.5	Input position, size, and masking	44
3.4.6	Input	47
3.4.7	Input timing	50
3.4.8	Picture controls	52
3.4.9	Output audio	58
3.4.10	Input audio	67
3.4.11	EDID	69
3.4.12	RS-232C	75
3.4.13	LAN	76
3.4.14	Preset memory	79
3.4.15	Bitmap	82
3.4.16	Multi window output	86
3.4.17	Configuring FDX-S	94
3.4.18	Status indication	96
3.4.19	Status notification	107
3.4.20	Transmission mode	125

1 About this Guide

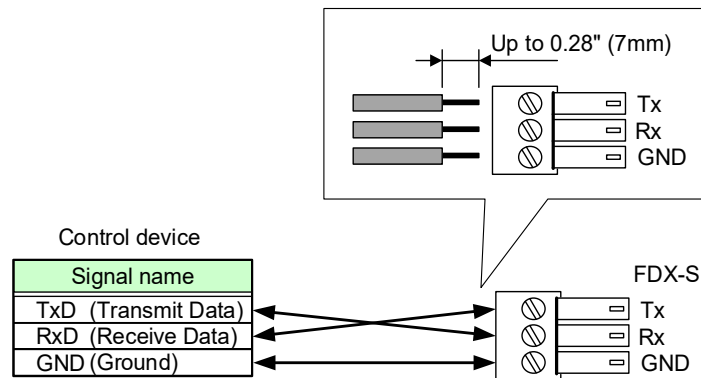
This guide contains the procedure for controlling the FDX-S using commands via RS-232C communication or LAN communication.

2 Communication configuration and Specifications

2.1 RS-232C communication

2.1.1 RS-232C connector specification

Insert and secure the wires from the RS-232C cable into the supplied 3-pin captive screw connector, and then insert the captive screw connector into the mating connector on the FDX-S. 24 AWG to 16 AWG conductor gauge is recommended. The recommended wire strip length is 0.28 in. (7 mm). Short RTS/CTS and DTR/DSR as needed.



[Fig. 2.1] RS-232C connector

2.1.2 RS-232C communication specification

[Table 2.1] RS-232C specification

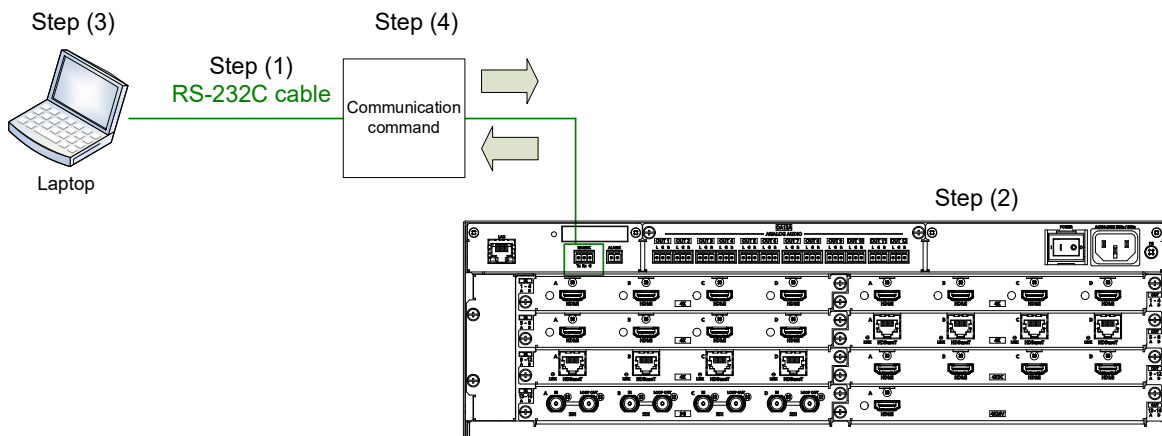
Compliant standard	RS-232C
Baud rate	4800/9600/14400/19200/38400 [bps]
Data bit length	7/8 [bit]
Parity check	NONE, EVEN, ODD
Stop bit	1/2 [bit]
X parameter	Invalid
Flow control	None
Delimiter	CR LF (Carriage return and line feed, 0D and 0A in hex)
Communication method	Full duplex

2.1.3 Setting up RS-232C communication

- (1) Connect the FDX-S and the control device via an RS-232C cable.
- (2) Set the RS-232C communication.

【Reference: User Guide】

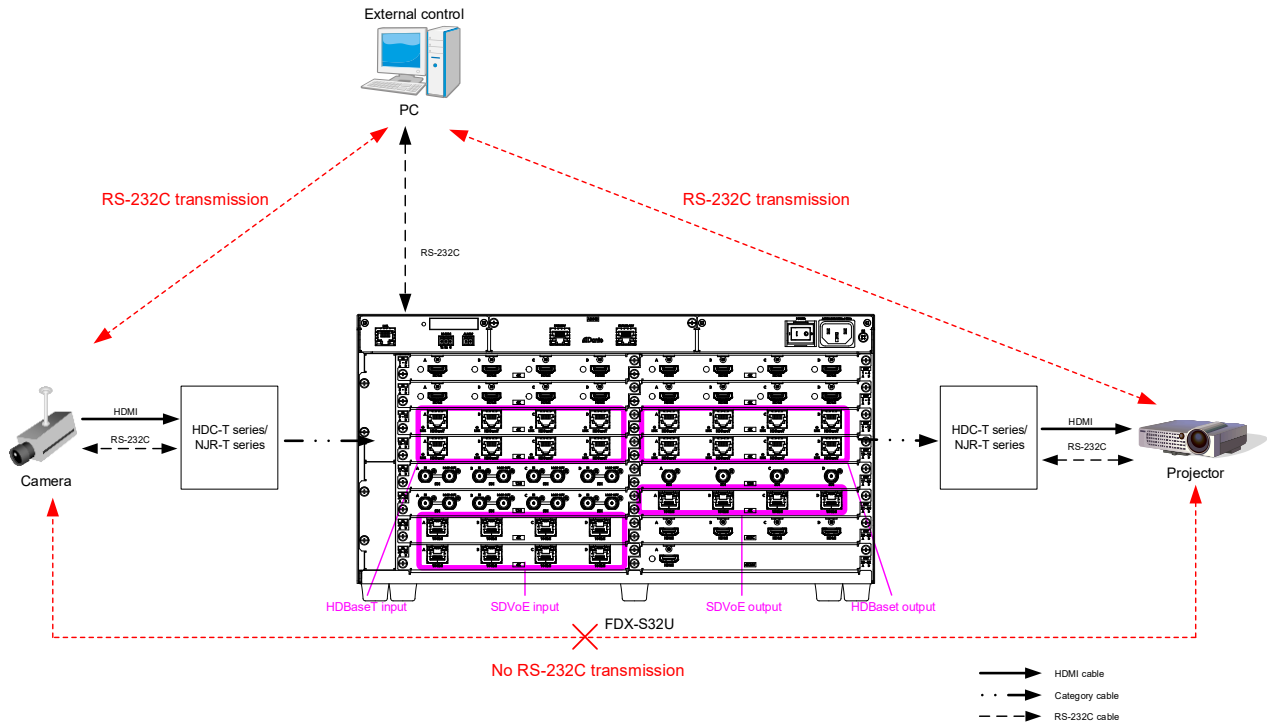
- (3) For the control device, set the same values in the same way as RS-232C communication (baud rate, data bit length, parity check, and stop bit) in step (2) above.
- (4) Send a communication command from the control device to the FDX-S in order to check the control status of the FDX-S.



[Fig. 2.2] Setting RS-232C communication

2.1.4 RS-232C transmission mode

Since the FDX-S supports RS-232C transmission over HDBaseT/SDVoE I/O boards, the received data from the RS-232C connector can be transmitted to external devices (camera and projector in the following example) that are connected to HDC series/NJR series products via RS-232C.



[Fig. 2.3] RS-232C transmission mode application example

When “3.4.20 Transmission mode” is set to RS-232C mode, received data will be sent to the specified I/O output channels until the mode is switched to normal mode.

Received data from the specified I/O channel can be sent from an RS-232C connector of the FDX-S. If data that is received from channels other than the specified channel will be deleted.

【See: @G++ / @S++ RS-232C transmission sending channel】

【See: @G+R / @S+R RS-232C transmission receiving channel】

【See: @G+S / @S+S RS-232C transmission mode】

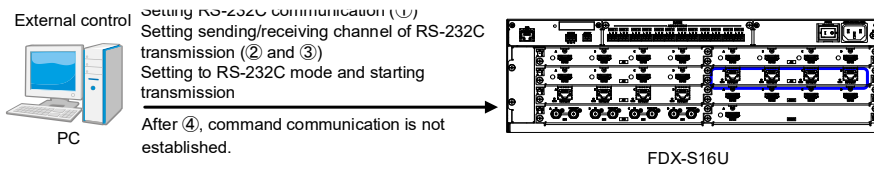
Note:

RS-232C communication is not available between an HDBaseT/SDVoE input board and HDBaseT/SDVoE output board.

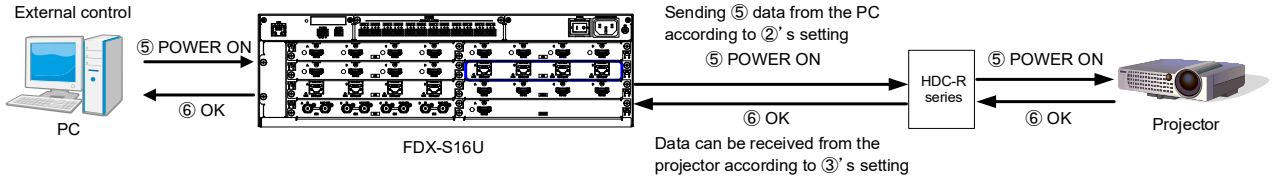
Example: Sending data to OUT12 and receiving the response from OUT12

①	@SCT,1,1,0,0 <CR><LF>	Setting RS-232C communication as follows: baud rate: 9600bps; data bit length: 8 bit; parity check: None; stop bit: 1 bit
②	@S++,12<CR><LF>	Setting RS-232C transmission sending channel, specifying OUT12
③	@S+R,12<CR><LF>	Setting RS-232C transmission receiving channel, specifying OUT12
④	@S+S,1<CR><LF>	Setting to RS-232C transmission mode After this, received data is sent to OUT12 set by @S++.
⑤	POWER ON	Sending projector powered ON command
⑥	OK	Receiving projector powered ON command
⑦	@S+S,0<CR><LF>	Setting to Normal mode After this, command can be sent to the FDX-S.
⑧	@GIV<CR><LF>	Getting versions

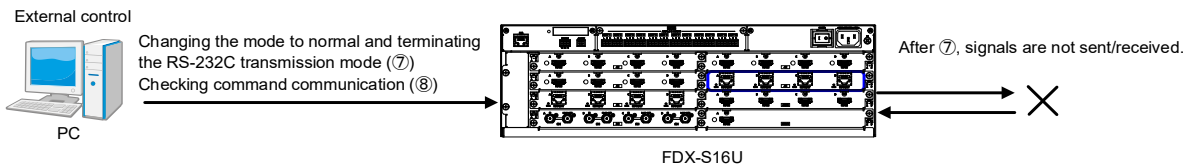
[Starting RS-232C transmission mode]



[Operating with RS-232C transmission mode]



[Terminating RS-232C transmission mode]



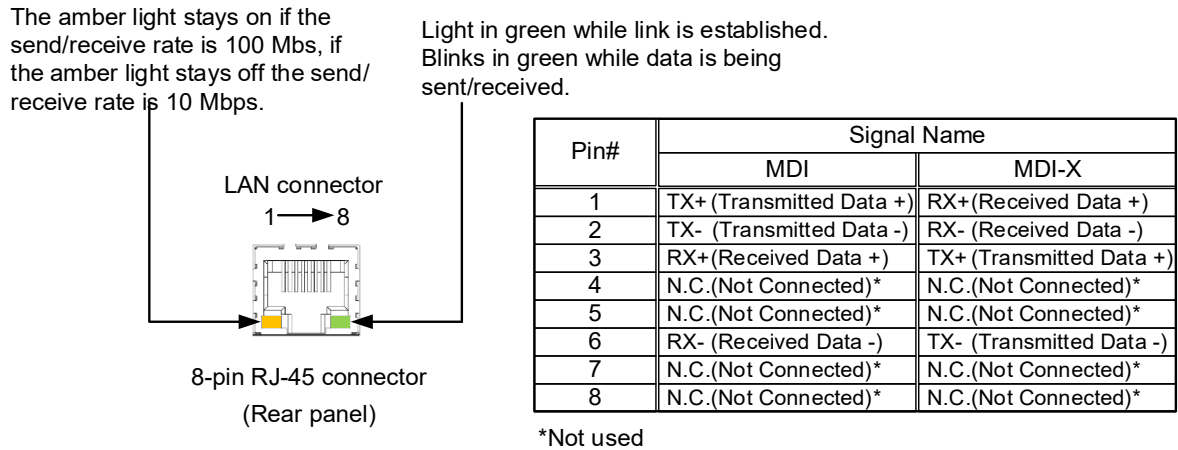
[Fig. 2.4] RS-232C transmission mode communication example

2.2 LAN communication

2.2.1 LAN connector specification

Pin assignment of the LAN connector is as follows.

Since the FDX supports Auto MDI/MDI-X, no extra care is required when connecting a straight or crossover cable between the server and another device.



[Fig. 2.5] LAN connector

2.2.2 LAN communication specification

[Table 2.2] Specification of LAN communication

Physical layer	10Base-T (IEEE802.3i)/100Base-TX (IEEE802.3u)
Network layer	ARP, IP, ICMP
Transport layer	TCP
	Port used for command control : 1100, 6000 to 6999 Port used for WEB browser control (HTTP): 80

Note:

Up to 8 connections can be used for communication command control.

【See: 2.2.4 The number of TCP-IP connections】

2.2.3 Setting up LAN communication

(1) Connect the FDX-S and the control device via a LAN cable.

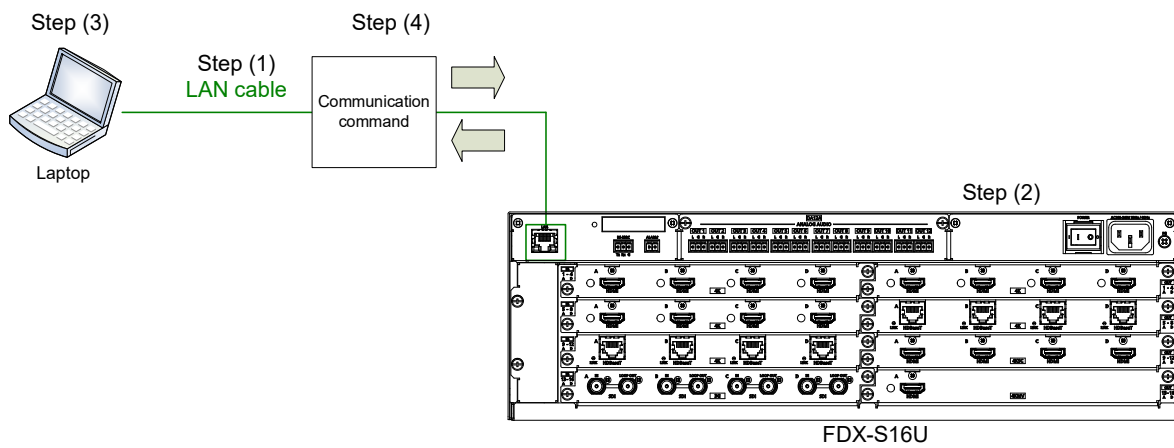
(2) Set up LAN communication as follows:

- Set IP address and subnet mask
- TCP port number: 1100, 6000 to 6999

【Reference: User guide】

(3) Establish the connection from the control device to the IP address and TCP port that are set to the FDX-S in step (2) above.

(4) Send a communication command from the control device to the FDX-S in order to check the control status of the FDX-S.



[Fig. 2.6] Setting LAN communication

2.2.4 The number of TCP-IP connections

The FDX-S supports up to eight simultaneous TCP-IP connections (eight logical ports). To maintain optimal system accessibility, it is advisable to issue “port-open” and “port-close” commands before and after command or query strings are issued. This approach enables eight or more control devices to be effectively interfaced simultaneously and without concern for communication errors.

[Table 2.3] Increasing connections

Your PC software		FDX-S
Connecting TCP-IP	→	(Occupying 1 port)
Sending command (@xxx)	→	
	←	Replying command (@xxx)
Closing TCP-IP	→	(Releasing 1port)

Note:

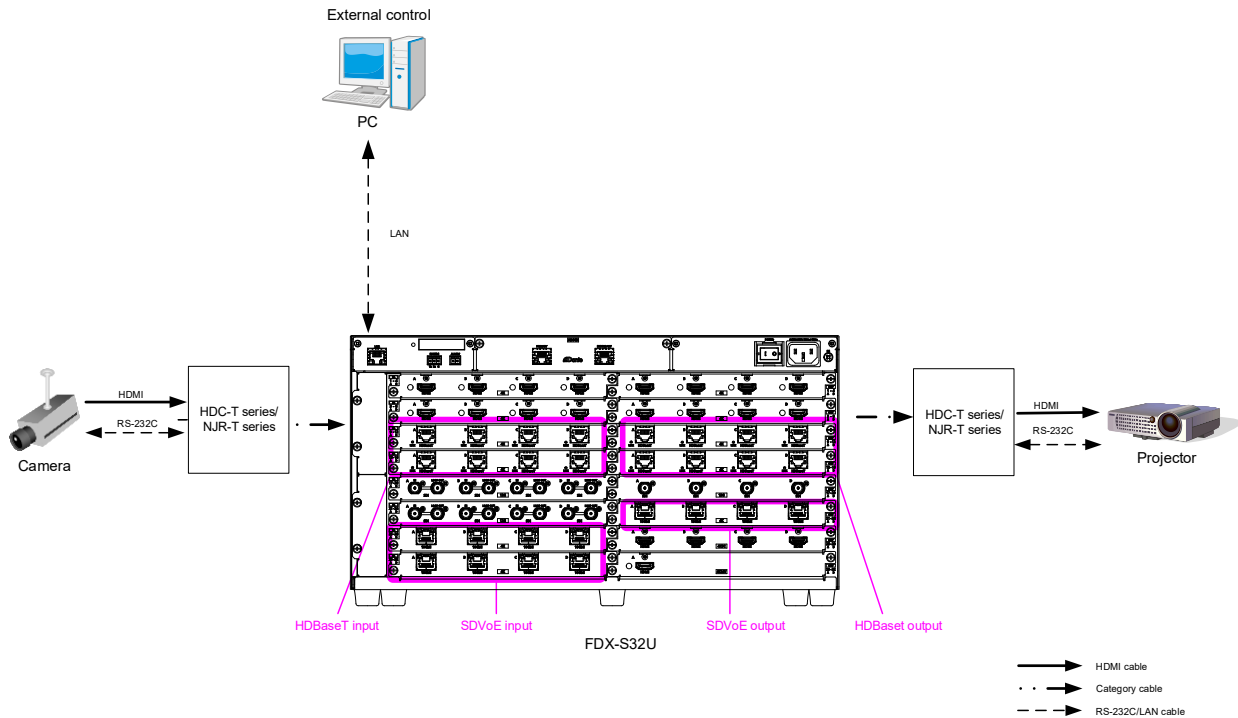
If no command is received from the PC side for the specified period, the FDX-S disconnects the connection automatically. In this case, connection needs to be re-established from the PC side.

If the automatic disconnection is not desired, you can change the setting in “@GLP / @SLPTCP port number (P.78)”.

(The FDX-S has eight ports. For example if the PC is turned off while connected, the port stays occupied. To avoid these problems, the FDX-S incorporates the automatic disconnection function.)

2.2.5 LAN transmission mode

Since the FDX-S supports RS-232C transmission over HDBaseT/SDVoE I/O boards, the received data from the LAN connector can be transmitted to external devices (camera and projector in the following example) that are connected to HDC series/NJR series products via RS-232C.



[Fig. 2.7] LAN transmission mode application example

When “3.4.20 Transmission mode” is set to LAN mode, received data will be sent to the specified I/O output channels until the mode is switched to normal mode or LAN connection is disconnected.

Received data from the specified I/O channel can be sent from an LAN connector of the FDX-S.

【See: @G-- / @S-- LAN transmission sending channel】

【See: @G-R / @S-R LAN transmission receiving channel】

【See: @G-S / @S-S LAN transmission mode】

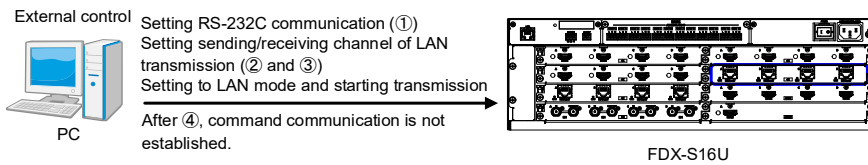
Note:

LAN communication is not available between an HDBaseT/SDVoE input board and HDBaseT/SDVoE output board.

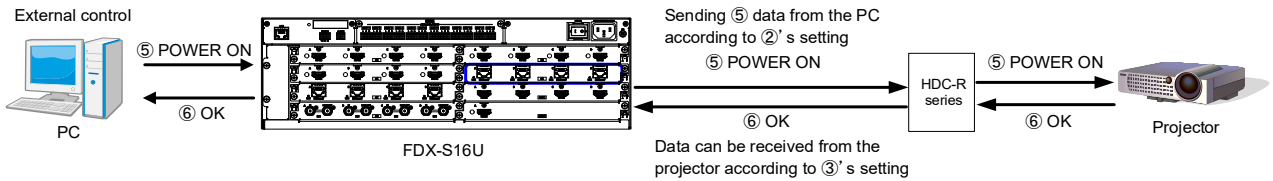
Example: Sending data to OUT12 and receiving the response from OUT12

①	@SCT,1,1,0,0 <CR><LF>	Setting RS-232C communication as follows: baud rate: 9600bps; data bit length: 8 bit; parity check: None; stop bit: 1 bit
②	@S--,12<CR><LF>	Setting LAN transmission sending channel, specifying OUT12
③	@S-R,12<CR><LF>	Setting LAN transmission receiving channel, specifying OUT12
④	@S-S,1<CR><LF>	Setting to LAN transmission mode After this, received data is sent to OUT12 set by @S--.
⑤	POWER ON	Sending projector powered ON command
⑥	OK	Receiving projector powered ON command
⑦	@S-S,0<CR><LF>	Setting to Normal mode After this, command can be sent to the FDX-S.
⑧	@GIV<CR><LF>	Getting versions

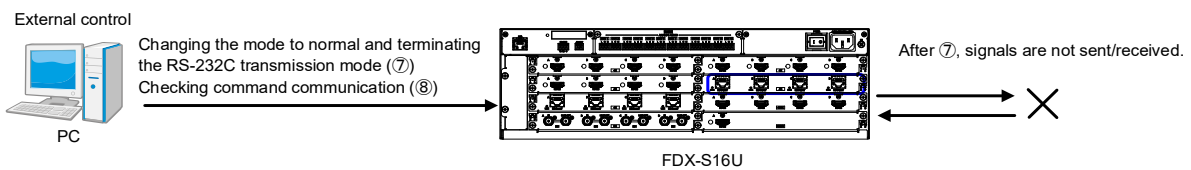
[Starting LAN transmission mode]



[Operating with LAN transmission mode]



[Terminating LAN transmission mode]



[Fig. 2.8] LAN transmission mode communication example

2.3 Unsolicited status notification

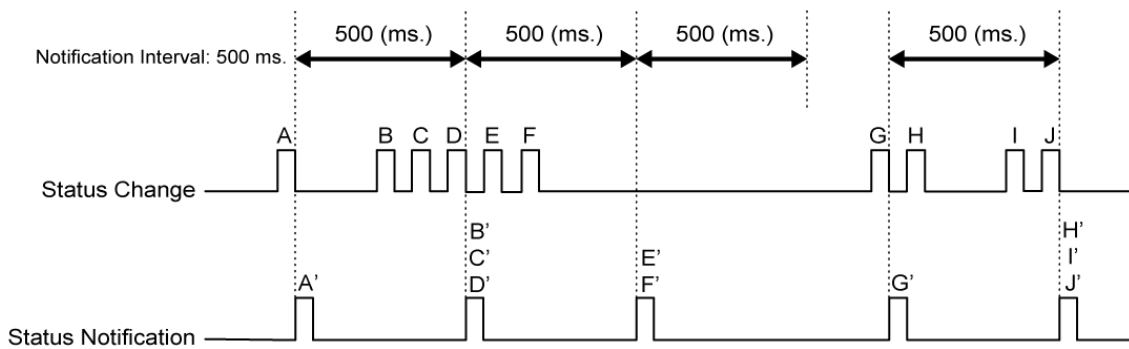
The FDX-S can notify status changes and problems in the system.

2.3.1 UDP

Changes in internal statuses can be sent immediately after the FDX-S is powered on. To enable the unsolicited notification, set the interval in “@GUH / @SUH Unsolicited notification interval using UDP”.

The notice is sent only to the UDP port of the IP address that is set in “@GDA / @SDA Unsolicited notification IP address/UDP port number of destination”.

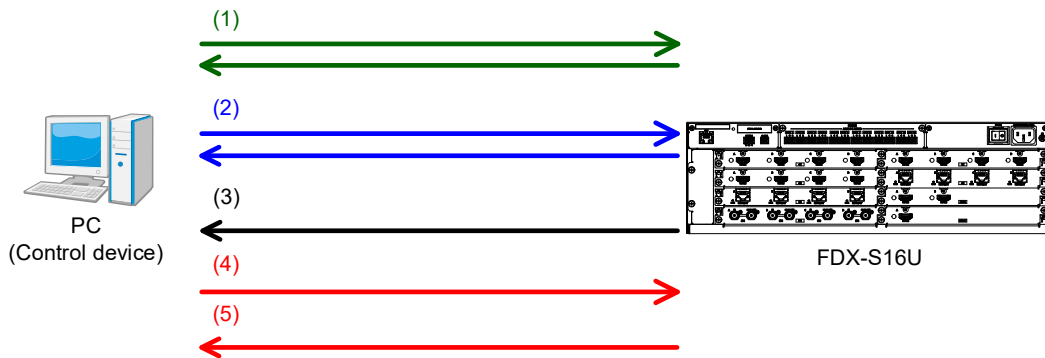
If no change is detected during the interval, status is sent immediately after detecting a change.



[Fig. 2.9] Notification interval

■ **Example:**

- (1) Set the IP address and UDP port using “@GDA / @SDA Unsolicited notification IP address/UDP port number of destination”.
- (2) Enable the unsolicited notice by setting the interval using “@GUH / @SUH Unsolicited notification interval using UDP”.
- (3) If any status changes, the notification is sent to the set control device.
- (4) The control device sent “@AIN Input signal status (For each channel)” command to the FDX-S.
- (5) The FDX-S returns the current status to the control device.



[Fig. 2.10] Notifying status

2.3.2 TCP and RS-232C

Changes in internal statuses can be noticed using TCP and RS-232C.

This feature is disabled when the FDX-S is powered on. To enable the unsolicited notification, set the interval in “@GPH / @SPH Unsolicited notification interval using TCP/RS-232C”.

The notice is sent only to the port that is set in “@GPH / @SPH Unsolicited notification interval using TCP/RS-232C”.

■ Example:

- (1) Enable the unsolicited notice by setting the interval using “@GPH / @SPH Unsolicited notification interval using TCP/RS-232C”.
- (2) If any status changes, the notification is sent to the set control device.
- (3) The control device sent “@AIN Input signal status (For each channel)” command to the FDX-S.
- (4) The FDX-S returns the current status to the control device.



[Fig. 2.11] Notifying status

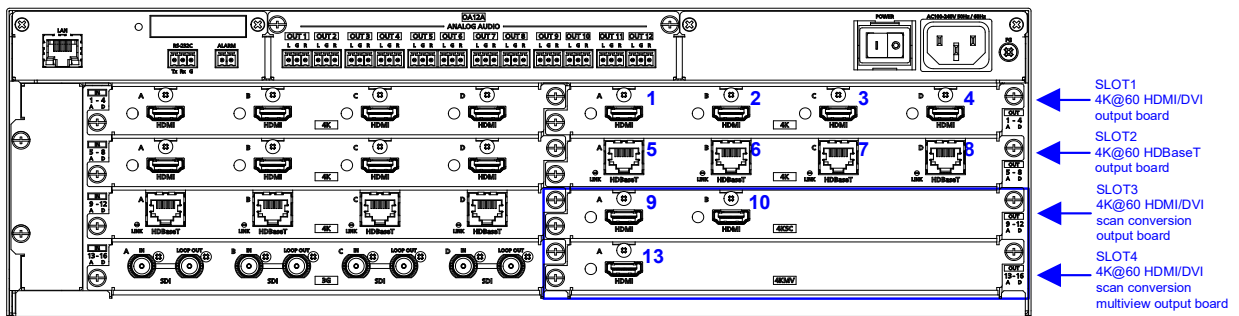
Note:

If “@G+S / @S+S RS-232C transmission mode” is set to RS-232C transmission mode, this feature cannot be used.

3 Command

3.1 Board channel configuration

- The output board channel configuration is different depending on the board type installed.
 - 4K@60 scan conversion output board : One board can have by two or four channels.
 - 4K@60 scan conversion multiview output board : One board can have by one channel.
 - Other output boards : One board can have by four channels.
- The channel numbers of 4K@60 scan conversion output board are the first two channels only; the rest of two channels cannot be set.
- For the 4K@60 scan conversion multiview output board, the channel number is the top channel number. For some menus, four channels including the top channel are assigned as multi windows.
- Example: Valid channels in the configuration below:
 - SLOT1 and 2 : An output board has four channels. No.1 to 8 are valid.
 - SLOT3 : For 4K@60 scan conversion multiview output board: No, 9 and No. 10 are valid; No.11 and No.12 cannot be used.
 - SLOT4 : For 4K@60 scan conversion multiview output board: No.13 is valid; No.14 to No.16 cannot be used, but No.13 to No.16 are assigned to multi windows A to D for some menus.



With FDX-SOA12A

[Fig. 3.1] Board channel configuration (Example: FDX-S16U)

3.2 Summary

The number of I/O channels depends on the model.

Setting and getting command examples in this manual are for the FDX-S16U.

“n” in this section shows the number of channels.

“m” in this section shows the number of boards.

[Table 3.1] The number of channels

P/N	n (number of channels)	m (number of boards)
FDX-S08U	8	2
FDX-S16U	16	4
FDX-S32U	32	8
FDX-S64U	64	16

A command consists of “@” (“40” in hexadecimal), 3 one-byte alphabetical characters (upper and lower cases), and parameters (one-byte numbers). For some commands, multiple parameter values can be specified or parameters are not necessary.

“,” (a comma, “2C” in hex) is indicated between a command and parameter and between two parameters. Processing is executed by sending <CR><LF> (return+line feed, “0D” and “0A” in hex) at the end of the command.

Example: @SPM,2<CR><LF>

■ If there is an error:

An error command is returned if an undefined command or wrong parameter is included.

Example: @SOT,2<CR><LF>
@ERR,1<CR><LF>

■ Using as HELP

If only <CR><LF> (return+line feed, “0D” and “0A” in hex) are sent, command list as the help command is returned.

3.3 Command list

■ Error status

Command	Function	Page
@ERR	Error status	22

■ I/O channel selection

Command	Function	Page
@SSC	Straight channel switching	22
@GSW / @SSW	I/O channel switching	23
@GCY / @SCY	Input channel selection copy	23

■ Output position, size, and masking

Command	Function	Page
@GOT / @SOT	Output resolution	24
@GUM / @SUM	Aspect ratio for sink device	25
@GSD / @SSD	Image size/Image position	26
@GBC / @SBC	Background color	27
@GTP / @STP	Test pattern	28
@GVW / @SVW	Videowall configuration/Image position	29
@GDL / @SDL	Frame delay	30
@GIM / @SIM	Synchronization mode	31
@GES / @SES	Video synchronization	31
@GOH / @SOH	Output settings	32

■ Output

Command	Function	Page
@GUY / @SUY	Disabling synchronous signal output when no video signal is input	35
@GBO / @SBO	Output video for when no input video	36
@GEN / @SEN	HDCP output	37
@GDM / @SDM	Output format	38
@GDC / @SDC	Deep Color output	39
@GFA / @SFA	Video transition effect	40
@GHM / @SHM	Sink device EDID check	41
@GMK / @SMK	Hot plug ignoring duration	42
@GDF / @SDF	SDI output format conversion	42
@GOG / @SOG	SDI output gearbox mode	43

■ Input position, size, and masking

Command	Function	Page
@GAP / @SAP	Aspect ratio	44
@GEF / @SEF	Input settings	45

■ Input

Command	Function	Page
@GDT / @SDT	No-signal input monitoring	47
@GHE / @SHE	HDCP input	48
@GDU / @SDU	3G-SDI Dual Stream	48
@GIG / @SIG	SDI input gearbox mode	49

■ Input timing

Command	Function	Page
@GPI / @SPI	Horizontal/Vertical start position	50
@GSI / @SSI	Horizontal/Vertical active area	51

■ Picture controls

Command	Function	Page
@GOB / @SOB	Output brightness	52
@GOC / @SOC	Output contrast	52
@GGM / @SGM	Output gamma	53
@GFL / @SFL	Input sharpness	53
@GIB / @SIB	Input brightness	54
@GIC / @SIC	Input contrast	55
@GHU / @SHU	Input hue	56
@GST / @SST	Input saturation	57

■ Output audio

Command	Function	Page
@GAM / @SAM	Mute	58
@GLO / @SLO	Output Lip Sync	59
@GAS / @SAS	Audio embedding/Audio de-embedding	63
@GWO / @SWO	Audio setting	65
@GGO / @SGO	SDI output audio group	66

■ Input audio

Command	Function	Page
@GAW / @SAW	Stable audio input wait	67
@GAG / @SAG	SDI input audio group	68

■ EDID

Command	Function	Page
@GVF / @SVF	Resolution	69
@RME	Copying EDID	70
@GEC / @SEC	External EDID	71
@GHZ / @SHZ	Frame rate	71
@GDI / @SDI	Deep Color	72
@GAF / @SAF	Audio format	73
@GSP / @SSP	Speaker configuration	74

■ RS-232C

Command	Function	Page
@GCT / @SCT	RS-232C communication	75

■ LAN

Command	Function	Page
@GIP / @SIP	IP address	76
@GSB / @SSB	Subnet mask	76
@GGW / @SGW	Gateway address	77
@GMC	MAC address	77
@GLP / @SLP	TCP port number	78
@GLD / @SLD	Automatic disconnection time (Timeout)	78

■ Preset memory

Command	Function	Page
@RCM	Recalling crosspoint	79
@SCM	Saving crosspoint memory	79
@SEM	Saving crosspoint memory	80
@GCM / @ECM	Editing crosspoint	80
@RPM	Recalling preset memory	81
@SPM	Saving preset memory	81
@GPM	Preset memory number matching I/O channel status	81

■ Bitmap

Command	Function	Page
@GBM / @SBM	Bitmap image output	82
@GBB / @SBB	Background color	83
@GBT / @SBT	Aspect ratio	84
@GZP / @SZP	Image position	85
@GPB / @SPB	Start-up bitmap output	85

■ Multi window output

Command	Function	Page
@GOP / @SOP	Window size/Window position	86
@GQP / @SQP	Image size/Image position	87
@GEB / @SEB	Background color	88
@GWP / @SWP	Window layer order	88
@GSE / @SSE	Video transition effect	89
@GWV / @SWV	Window ON/OFF	89
@GTO / @STO	Overlay text position	90
@GTS / @STS	Overlay text size	90
@GFW / @SFW	Window border size	91
@GFC / @SFC	Window border color	91
@GEW / @SEW	Window synchronous mode	92
@RWM	Recalling multi window memory	92
@SWM	Saving multi window memory	93

■ Configuring FDX-S

Command	Function	Page
@GLS / @SLS	Front panel security lockout	94
@GLM / @SLM	Grouping front panel security lockout	94
@RBT	Reboot	95
@CLR	Initialization	95

■ Status indication

Command	Function	Page
@GIS	Input signal status (For each channel)	96
@GOS	Output signal status (For each channel)	98
@GHC	System status	99
@GBS	Board status	99
@GSS	Board mounting status	100
@GFS	Fan status	101
@GPS	Power supply voltage status	101
@GIV	Version	102
@GHB	HDBaseT information	103

■ Status notification

Command	Function	Page
@GDA / @SDA	Unsolicited notification IP address/UDP port number of destination	107
@GUH / @SUH	Unsolicited notification interval using UDP	108
@GPH / @SPH	Unsolicited notification interval	109
@PSH	Unsolicited status notification	110
@AIN	Input signal status (For each channel)	112
@AOT	Output signal status (For each channel)	116
@GAA	Alarm status	122

■ Transmission mode

Command	Function	Page
@G++ / @S++	RS-232C transmission sending channel	125
@G+R / @S+R	RS-232C transmission receiving channel	125
@G+S / @S+S	RS-232C transmission mode	126
@G-- / @S--	LAN transmission sending channel	126
@G-R / @S-R	LAN transmission receiving channel	127
@G-S / @S-S	LAN transmission mode	127

3.4 Details of commands

3.4.1 Error status

@ERR		Error status
Description		Response in case the command is not executed
Response		@ERR, error<CR><LF>
Parameter		error: Error status 1 = Erroneous parameter format or value 2 = Undefined command or wrong format 3 = Currently cannot be used 4 = Loading EDID from the sink device failed
Getting example	Command	@SSW<CR><LF>
	Response	@ERR,1<CR><LF>
	Description	@SSW is sent. Command format error
Remarks		—

3.4.2 I/O channel selection

@SSC		Straight channel switching
Setting	Command	@SSC<CR><LF>
	Response	@SSC<CR><LF>
Parameter		—
Setting example	Command	@SSC<CR><LF>
	Response	@SSC<CR><LF>
	Description	Setting I/O channel to the same number I/O Completed
Remarks		Straight channel switching: For example, OUT1 is connected to IN1; OUT2 is connected to IN2; OUT16 is connected to IN16.

@GSW / @SSW		I/O channel switching
Getting	Command	@GSW<CR><LF>
	Response	@GSW, v_1, v_2, ..., v_8 (, v_9, ..., v_n)<CR><LF>
Setting	Command	@SSW, in_1, out_1 (, in_2, out_2, ...)<CR><LF>
	Response	@SSW, in_1, out_1 (, in_2, out_2, ...)<CR><LF>
Parameter		v_1-n: Input channel assigned to output channel 0 = OFF [Default], 1 to n = IN1 to INn, -1 = No output board is installed.
		in_1-n: Input channel 0 = OFF, 1 to n = IN1 to INn
		out_1-n: Output channel 0 = All outputs, 1 to n = OUT1 to OUTn
Getting example	Command	@GSW<CR><LF>
	Response	@GSW,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16<CR><LF>
	Description	Getting the I/O channels that is assigned to the I/O channels OUT1 to OUT16 are assigned to IN1 to IN16.
Setting example	Command	@SSW,1,3<CR><LF>
	Response	@SSW,1,3<CR><LF>
	Description	Setting OUT3 to IN1 OUT3 is assigned to IN1. Completed
Remarks		—

@GCY / @SCY		Input channel selection copy
Getting	Command	@GCY, sch<CR><LF>
	Response	@GCY, sch, dch_1, ..., dch_8 (, dch_9, ..., dch_n)<CR><LF>
Setting	Command	@SCY, sch, dch_1 (, dch_2, ...)<CR><LF>
	Response	@SCY, sch, dch_1 (, dch_2, ...)<CR><LF>
Parameter		sch: Source output channel 1 to n = OUT1 to OUTn, -2 = No output board is installed. (For response only)
		dch_1-n: Destination output channel 0 =All outputs (For setting only), 1 to n = OUT1 to OUTn
Getting example	Command	@GCY,1<CR><LF>
	Response	@GCY,1,2,3,4<CR><LF>
	Description	Getting the output channel with the same setting as the input channel assigned to OUT1 OUTs 2, 3, and 4 have the same input channel as OUT1.
Setting example	Command	@SCY,1,3<CR><LF>
	Response	@SCY,1,3<CR><LF>
	Description	Copying input channel selection of OUT1 to that of OUT3 Completed
Remarks		This command is for displaying video that is being output to one sink device to other sink devices.

3.4.3 Output position, size, and masking

Scan conversion output only

@GOT / @SOT		Output resolution																																														
Getting	Command	@GOT, out_ch<CR><LF>																																														
	Response	@GOT, out_ch, auto, resolution<CR><LF>																																														
Setting	Command	@SOT, out_ch, auto, resolution<CR><LF>																																														
	Response	@SOT, out_ch, auto, resolution<CR><LF>																																														
Parameter		<p>out_ch: Output channel 1 to n = OUT1 to OUTn</p> <p>auto: Output resolution mode 0 = Resolution can be specified for the "resolution" parameter below. 1 = Resolution can be selected automatically [Default], -2 = No scan conversion output board is installed. (For response only)</p> <p>resolution: Output resolution</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">1 = VGA (640x480),</td> <td style="width: 50%;">3 = XGA (1024x768),</td> </tr> <tr> <td>4 = WXGA (1280x768),</td> <td>5 = WXGA (1280x800),</td> </tr> <tr> <td>6 = Quad-VGA (1280x960),</td> <td>7 = SXGA (1280x1024),</td> </tr> <tr> <td>8 = WXGA (1360x768),</td> <td>9 = WXGA (1366x768),</td> </tr> <tr> <td>10 = SXGA+ (1400x1050),</td> <td>11 = WXGA+ (1440x900),</td> </tr> <tr> <td>12 = WXGA++ (1600x900),</td> <td>13 = UXGA (1600x1200),</td> </tr> <tr> <td>14 = WSXGA+ (1680x1050),</td> <td>15 = VESAHD (1920x1080),</td> </tr> <tr> <td>16 = WUXGA (1920x1200),</td> <td>17 = QWXGA (2048x1152),</td> </tr> <tr> <td>18 = WQHD (2560x1440)*,</td> <td>19 = WQXGA (2560x1600)*,</td> </tr> <tr> <td>20 = 480p 59.94Hz,</td> <td>21 = 576p 50Hz,</td> </tr> <tr> <td>22 = 720p 50Hz,</td> <td>23 = 720p 59.94Hz,</td> </tr> <tr> <td>24 = 1080i 50Hz,</td> <td>25 = 1080i 59.94Hz,</td> </tr> <tr> <td>26 = 1080p 50Hz,</td> <td>27 = 1080p 59.94Hz,</td> </tr> <tr> <td>33 = 720p 60Hz,</td> <td>35 = 1080i 60Hz,</td> </tr> <tr> <td>37 = 1080p 60Hz,</td> <td>50 = 2160p 23.98Hz (3840x2160)*,</td> </tr> <tr> <td>51 = 2160p 24Hz (3840x2160)*,</td> <td>52 = 2160p 25Hz (3840x2160)*,</td> </tr> <tr> <td>53 = 2160p 29.97Hz (3840x2160)*,</td> <td>54 = 2160p 30Hz (3840x2160)*,</td> </tr> <tr> <td>55 = 2160p 50Hz (3840x2160)*,</td> <td>56 = 2160p 59.94Hz (3840x2160)*,</td> </tr> <tr> <td>57 = 2160p 60Hz (3840x2160)*,</td> <td>60 = 4096x2160 23.98Hz*,</td> </tr> <tr> <td>61 = 4096x2160 24Hz*,</td> <td>62 = 4096x2160 25Hz*,</td> </tr> <tr> <td>63 = 4096x2160 29.97Hz*,</td> <td>64 = 4096x2160 30Hz*,</td> </tr> <tr> <td>65 = 4096x2160 50Hz*,</td> <td>66 = 4096x2160 59.94Hz*,</td> </tr> <tr> <td>67 = 4096x2160 60Hz*</td> <td></td> </tr> </table> <p>-2 = No scan conversion output board is installed. (For response only) *For 4K@60 scan conversion output boards and 4K@60 scan conversion multiview output boards only</p>	1 = VGA (640x480),	3 = XGA (1024x768),	4 = WXGA (1280x768),	5 = WXGA (1280x800),	6 = Quad-VGA (1280x960),	7 = SXGA (1280x1024),	8 = WXGA (1360x768),	9 = WXGA (1366x768),	10 = SXGA+ (1400x1050),	11 = WXGA+ (1440x900),	12 = WXGA++ (1600x900),	13 = UXGA (1600x1200),	14 = WSXGA+ (1680x1050),	15 = VESAHD (1920x1080),	16 = WUXGA (1920x1200),	17 = QWXGA (2048x1152),	18 = WQHD (2560x1440)*,	19 = WQXGA (2560x1600)*,	20 = 480p 59.94Hz,	21 = 576p 50Hz,	22 = 720p 50Hz,	23 = 720p 59.94Hz,	24 = 1080i 50Hz,	25 = 1080i 59.94Hz,	26 = 1080p 50Hz,	27 = 1080p 59.94Hz,	33 = 720p 60Hz,	35 = 1080i 60Hz,	37 = 1080p 60Hz,	50 = 2160p 23.98Hz (3840x2160)*,	51 = 2160p 24Hz (3840x2160)*,	52 = 2160p 25Hz (3840x2160)*,	53 = 2160p 29.97Hz (3840x2160)*,	54 = 2160p 30Hz (3840x2160)*,	55 = 2160p 50Hz (3840x2160)*,	56 = 2160p 59.94Hz (3840x2160)*,	57 = 2160p 60Hz (3840x2160)*,	60 = 4096x2160 23.98Hz*,	61 = 4096x2160 24Hz*,	62 = 4096x2160 25Hz*,	63 = 4096x2160 29.97Hz*,	64 = 4096x2160 30Hz*,	65 = 4096x2160 50Hz*,	66 = 4096x2160 59.94Hz*,	67 = 4096x2160 60Hz*	
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Getting example	Command	@GOT,1<CR><LF>																																														
	Response	@GOT,1,0,7<CR><LF>																																														
	Description	Getting the OUT1 output resolution SXGA (1280x1024)																																														

@GOT / @SOT		Output resolution (Cont'd)
Setting example	Command	@SOT,1,0,11<CR><LF>
	Response	@SOT,1,0,11<CR><LF>
	Description	Setting the OUT1 output resolution to WXGA+ (1440x900) Completed
Remarks		—

Scan conversion output only

@GUM / @SUM		Aspect ratio for sink device
Getting example	Command	@GUM, out_ch<CR><LF>
	Response	@GUM, out_ch, aspect<CR><LF>
Setting example	Command	@SUM, out_ch, aspect<CR><LF>
	Response	@SUM, out_ch, aspect<CR><LF>
Parameter		out_ch: Output channel 1 to n = OUT1 to OUTn aspect: Aspect ratio for sink device 0 = RESOLUTION [Default], 1 = 4:3, 2 = 5:3, 3 = 5:4, 4 = 16:9, 5 = 16:10, -2 = No scan conversion output board is installed. (For response only)
Getting example	Command	@GUM,1<CR><LF>
	Response	@GUM,1,4<CR><LF>
	Description	Getting the OUT1 aspect ratio for sink device 16:9
Setting example	Command	@SUM,1,4<CR><LF>
	Response	@SUM,1,4<CR><LF>
	Description	Setting the OUT1 aspect ratio for sink device to 16:9 Completed
Remarks		—

Scan conversion output only

@GSD / SSD		Image size/Image position
Getting	Command	@GSD, out_ch<CR><LF>
	Response	@GSD, out_ch, h_zoom, v_zoom, h_posi, v_posi<CR><LF>
Setting	Command	@SSD, out_ch, h_zoom, v_zoom, h_posi, v_posi<CR><LF>
	Response	@SSD, out_ch, h_zoom, v_zoom, h_posi, v_posi<CR><LF>
Parameter		out_ch: Output channel 1 to n = OUT1 to OUTn h_zoom: Horizontal image size 2000 to 210000 = 20.00% to 2100.00% [Default] 10000 (100.00%) -2 = No scan conversion output board is installed. (For response only)* *"h_zoom", "v_zoom", h_posi", and "v_posi" are not displayed. v_zoom: Vertical image size 2000 to 210000 = 20.00% to 2100.00% [Default] 10000 (100.00%) h_posi: Horizontal image position -210000 to +210000 = -2100.00% to +2100.00% [Default] +0 (0.00%) v_posi: Vertical image position -210000 to +210000 = -2100.00% to +2100.00% [Default] +0 (0.00%)
Getting example	Command	@GSD,1<CR><LF>
	Response	@GSD,1,10000,10000,+0,+0<CR><LF>
	Description	Getting the OUT1 image size and position Horizontal and vertical image size : 100.00% Horizontal and vertical image position : 0.00%
Setting example	Command	@SSD,1,10000,10000,0,0<CR><LF>
	Response	@SSD,1,10000,10000,0,0<CR><LF>
	Description	Setting the OUT1 horizontal sizes, vertical sizes. Horizontal position, and vertical position to 100.00% 100.00%, 0.00%, and 0.00%, respectively. Completed
Remarks		—

Scan conversion output only

@GBC / @SBC		Background color
Getting	Command	@GBC, out_ch<CR><LF>
	Response	@GBC, out_ch, b_red, b_green, b_blue, m_red, m_green, m_blue<CR><LF>
Setting	Command	@SBC, out_ch, b_red, b_green, b_blue, m_red, m_green, m_blue<CR><LF>
	Response	@SBC, out_ch, b_red, b_green, b_blue, m_red, m_green, m_blue<CR><LF>
Parameter		<p>out_ch: Output channel 1 to n = OUT1 to OUTn</p> <p>b_red : Background color (Red) b_green : Background color (Green) b_blue : Background color (Blue) m_red : Blank color (Red) m_green: Blank color (Green) m_blue : Blank color (Blue) 0 to 255 [Default] 0 (Black) -2 = No scan conversion output board is installed. (For response only)</p> <p>Background color : Blank space color that is output when display position and display size are set.</p> <p>Blank color : Background color that is output when input channel is set to OFF or no video is input.</p>
Getting example	Command	@GBC,1<CR><LF>
	Response	@GBC,1,0,0,0,0,0,0<CR><LF>
	Description	Getting the OUT1 background and blank colors All: "0" (Black)
Setting example	Command	@SBC,1,0,0,0,0,0,0<CR><LF>
	Response	@SBC,1,0,0,0,0,0,0<CR><LF>
	Description	Setting OUT1:s background colors and blank colors to "0" (black) Completed
Remarks		—

Scan conversion output only

@GTP / @STP		Test pattern
Getting	Command	@GTP, out_ch<CR><LF>
	Response	@GTP, out_ch, pattern<CR><LF>
Setting	Command	@STP, out_ch, pattern<CR><LF>
	Response	@STP, out_ch, pattern<CR><LF>
Parameter		out_ch: Output channel 1 to n = OUT1 to OUTn pattern: Test pattern 0 = OFF [Default], 1 = COLOR BAR, 2 = 16 STEP GRAY, 3 = 256 STEP GRAY, 4 = WHITE RASTER, 5 = RED RASTER, 6 = GREEN RASTER, 7 = BLUE RASTER, 8 = CROSS HATCH, 9 = VERTICAL STRIPE, 10 = OUTPUT FRAME, -2 = No scan conversion output board is installed. (For response only)
Getting example	Command	@GTP,1<CR><LF>
	Response	@GTP,1,1<CR><LF>
	Description	Getting the OUT1 test pattern COLOR BAR
Setting example	Command	@STP,1,1<CR><LF>
	Response	@STP,1,1<CR><LF>
	Description	Setting the OUT1 test pattern to COLOR BAR Completed
Remarks		—

Scan conversion output only

@GVW / @SVW		Videowall configuration/Image position
Getting	Command	@GVW, out_ch<CR><LF>
	Response	@GVW, out_ch, h_type, v_type, h_posi, v_posi<CR><LF>
Setting	Command	@SVW, out_ch, h_type, v_type, h_posi, v_posi<CR><LF>
	Response	@SVW, out_ch, h_type, v_type, h_posi, v_posi<CR><LF>
Parameter		<p>out_ch: Output channel 1 to n = OUT1 to OUTn</p> <p>h_type: Videowall horizontal screen number 0 = Not control, 1 to 20 = 1 to 20 screens [Default] 1 (1 screen), -2 = No scan conversion output board is installed. (For response only)</p> <p>v_type: Videowall vertical screen number 0 = Not control, 1 to 20 = 1 to 20 screens [Default] 1 (1 screen), -2 = No scan conversion output board is installed. (For response only)</p> <p>h_posi: Videowall horizontal image position 0 = Not control, 1 to 20 = 1 to 20 from left [Default] 1 (1 from left), -2 = No scan conversion output board is installed. (For response only)</p> <p>v_posi: Videowall vertical image position 0 = Not control, 1 to 20 = 1 to 20 from top [Default] 1 (1 from top), -2 = No scan conversion output board is installed. (For response only)</p>
Getting example	Command	@GVW,1<CR><LF>
	Response	@GVW,1,2,2,1,1<CR><LF>
	Description	Getting the OUT1 videowall configuration 2x2; 1 from left, 1 from top
Setting example	Command	@SVW,1,2,2,1,1<CR><LF>
	Response	@SVW,1,2,2,1,1<CR><LF>
	Description	Setting the OUT1 videowall configuration to 2x2; 1 from left, 1 from top Completed
Remarks		—

Scan conversion output only

@GDL / @SDL		Frame delay
Getting	Command	@GDL<CR><LF>
	Response	@GDL, delay_1, ..., delay_8 (, delay_9, ..., delay_n)<CR><LF>
Setting	Command	@SDL, out_ch, delay<CR><LF>
	Response	@SDL, out_ch, delay<CR><LF>
Parameter		delay_1-n, delay: Synchronization mode 0 = OFF (No frame delay) [Default], 1 = 1 frame delay, 2 = -1 frame delay, -2 = No scan conversion output board is installed. (For response only)
		out_ch: Output channel 0 = All outputs, 1 to n = OUT1 to OUTn
Getting example	Command	@GDL<CR><LF>
	Response	@GDL,0,0,0,0,1,1,1,1,2,2,2,2,-2,-2,-2,-2<CR><LF>
	Description	Getting the frame delay - OUT1 to 4 : OFF - OUT5 to 8 : 1 frame delay - OUT9 to 12 : -1 frame delay - OUT13 to 16 : No scan conversion output board is installed.
Setting example	Command	@SDL,0,1<CR><LF>
	Response	@SDL,0,1<CR><LF>
	Description	Setting all outputs to 1 frame delay Completed
	Command	@SDL,1,2<CR><LF>
	Response	@SDL,1,2<CR><LF>
	Description	Setting the OUT1 to -1 frame delay Completed
Remarks		—

Scan conversion output only

@GIM / @SIM		Synchronization mode
Getting	Command	@GIM<CR><LF>
	Response	@GIM, mode_1, mode_2 (, mode_3, ..., mode_x)<CR><LF>
Setting	Command	@SIM, slot_1, mode_1 (, slot_2, mode_2, ...)<CR><LF>
	Response	@SIM, slot_1, mode_1 (, slot_2, mode_2, ...)<CR><LF>
Parameter		mode_1-x: Synchronization mode 0 = THROUGH [Default], 1 = FOLLOWER, 2 = LEADER A, 3 = LEADER B, 4 = LEADER C, 5 = LEADER D, -2 = No scan conversion output board is installed. (For response only)
		slot_1-x: Output board 1 to x = Output board 1 to Output board x
Getting example	Command	@GIM<CR><LF>
	Response	@GIM,2,1,-2,-2<CR><LF>
	Description	Getting the synchronization mode - Output board 1 : LEADER A - Output board 2 : FOLLOWER - Output board 3 and 4 : No scan conversion output board is installed.
Setting example	Command	@SIM,1,2<CR><LF>
	Response	@SIM,1,2<CR><LF>
	Description	Setting the synchronization mode of Output board 1 to LEADER A mode Completed
Remarks		—

Scan conversion output only

@GES / @SES		Video synchronization
Getting	Command	@GES, out_ch<CR><LF>
	Response	@GES, out_ch, mode<CR><LF>
Setting	Command	@SES, out_ch, mode<CR><LF>
	Response	@SES, out_ch, mode<CR><LF>
Parameter		out_ch: Output channel 0 = All outputs (For setting only), 1 to n = OUT1 to OUTn
		mode: Video synchronization 0 = OFF [Default], 1 = ON, -2 = No scan conversion output board is installed. (For response only)
Getting example	Command	@GES,1<CR><LF>
	Response	@GES,1,1<CR><LF>
	Description	Getting the OUT1 video synchronization ON
Setting example	Command	@SES,1,1<CR><LF>
	Response	@SES,1,1<CR><LF>
	Description	Setting the OUT1 video synchronization to ON Completed
Remarks		—

Scan conversion output only

@GOH / @SOH		Output settings																																												
Getting	Command	@GOH, out_ch<CR><LF>																																												
	Response	@GOH, out_ch, auto, resolution, aspect, pattern, h_zoom, v_zoom, h_posi, v_posi, m_red, m_green, m_blue, b_red, b_green, b_blue, c_red, c_green, c_blue, brightness, mode, hdcp<CR><LF>																																												
Setting	Command	@SOH, out_ch, auto, resolution, aspect, pattern, h_zoom, v_zoom, h_posi, v_posi, m_red, m_green, m_blue, b_red, b_green, b_blue, c_red, c_green, c_blue, brightness, mode, hdcp<CR><LF>																																												
	Response	@SOH, out_ch, auto, resolution, aspect, pattern, h_zoom, v_zoom, h_posi, v_posi, m_red, m_green, m_blue, b_red, b_green, b_blue, c_red, c_green, c_blue, brightness, mode, hdcp<CR><LF>																																												
Parameter		out_ch: Output channel 1 to n = OUT1 to OUTn																																												
		auto: Output resolution mode 0 = Resolution can be specified with the "resolution" parameter below. 1 = Resolution will be selected automatically [Default], -2 = No scan conversion output board is installed. (For response only)* *Values after "auto" are not displayed.																																												
		resolution: Output resolution <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">1 = VGA (640x480),</td> <td style="width: 50%;">3 = XGA (1024x768),</td> </tr> <tr> <td>4 = WXGA (1280x768),</td> <td>5 = WXGA (1280x800),</td> </tr> <tr> <td>6 = Quad-VGA (1280x960),</td> <td>7 = SXGA (1280x1024),</td> </tr> <tr> <td>8 = WXGA (1360x768),</td> <td>9 = WXGA (1366x768),</td> </tr> <tr> <td>10 = SXGA+ (1400x1050),</td> <td>11 = WXGA+ (1440x900),</td> </tr> <tr> <td>12 = WXGA++ (1600x900),</td> <td>13 = UXGA (1600x1200),</td> </tr> <tr> <td>14 = WSXGA+ (1680x1050),</td> <td>15 = VESAHD (1920x1080),</td> </tr> <tr> <td>16 = WUXGA (1920x1200),</td> <td>17 = QWXGA (2048x1152),</td> </tr> <tr> <td>18 = WQHD (2560x1440),</td> <td>19 = WQXGA (2560x1600)*,</td> </tr> <tr> <td>20 = 480p 59.94Hz,</td> <td>21 = 576p 50Hz,</td> </tr> <tr> <td>22 = 720p 50Hz,</td> <td>23 = 720p 59.94Hz,</td> </tr> <tr> <td>24 = 1080i 50Hz,</td> <td>25 = 1080i 59.94Hz,</td> </tr> <tr> <td>26 = 1080p 50Hz,</td> <td>27 = 1080p 59.94Hz,</td> </tr> <tr> <td>33 = 720p 60Hz,</td> <td>35 = 1080i 60Hz,</td> </tr> <tr> <td>37 = 1080p 60Hz,</td> <td>50 = 2160p 23.98Hz (3840x2160)*,</td> </tr> <tr> <td>51 = 2160p 24Hz (3840x2160)*,</td> <td>52 = 2160p 25Hz (3840x2160)*,</td> </tr> <tr> <td>53 = 2160p 29.97Hz (3840x2160)*,</td> <td>54 = 2160p 30Hz (3840x2160)*,</td> </tr> <tr> <td>55 = 2160p 50Hz (3840x2160)*,</td> <td>56 = 2160p 59.94Hz (3840x2160)*,</td> </tr> <tr> <td>57 = 2160p 60Hz (3840x2160)*,</td> <td>60 = 4096x2160 23.98Hz*,</td> </tr> <tr> <td>61 = 4096x2160 24Hz*,</td> <td>62 = 4096x2160 25Hz*,</td> </tr> <tr> <td>63 = 4096x2160 29.97Hz*,</td> <td>64 = 4096x2160 30Hz*,</td> </tr> <tr> <td>65 = 4096x2160 50Hz*,</td> <td>66 = 4096x2160 59.94Hz*,</td> </tr> <tr> <td>67 = 4096x2160 60Hz*</td> <td></td> </tr> </table> <p>-2 = No scan conversion output board is installed. (For response only) *For 4K@60 scan conversion output boards only and 4K@60 scan conversion multiview output boards</p>	1 = VGA (640x480),	3 = XGA (1024x768),	4 = WXGA (1280x768),	5 = WXGA (1280x800),	6 = Quad-VGA (1280x960),	7 = SXGA (1280x1024),	8 = WXGA (1360x768),	9 = WXGA (1366x768),	10 = SXGA+ (1400x1050),	11 = WXGA+ (1440x900),	12 = WXGA++ (1600x900),	13 = UXGA (1600x1200),	14 = WSXGA+ (1680x1050),	15 = VESAHD (1920x1080),	16 = WUXGA (1920x1200),	17 = QWXGA (2048x1152),	18 = WQHD (2560x1440),	19 = WQXGA (2560x1600)*,	20 = 480p 59.94Hz,	21 = 576p 50Hz,	22 = 720p 50Hz,	23 = 720p 59.94Hz,	24 = 1080i 50Hz,	25 = 1080i 59.94Hz,	26 = 1080p 50Hz,	27 = 1080p 59.94Hz,	33 = 720p 60Hz,	35 = 1080i 60Hz,	37 = 1080p 60Hz,	50 = 2160p 23.98Hz (3840x2160)*,	51 = 2160p 24Hz (3840x2160)*,	52 = 2160p 25Hz (3840x2160)*,	53 = 2160p 29.97Hz (3840x2160)*,	54 = 2160p 30Hz (3840x2160)*,	55 = 2160p 50Hz (3840x2160)*,	56 = 2160p 59.94Hz (3840x2160)*,	57 = 2160p 60Hz (3840x2160)*,	60 = 4096x2160 23.98Hz*,	61 = 4096x2160 24Hz*,	62 = 4096x2160 25Hz*,	63 = 4096x2160 29.97Hz*,	64 = 4096x2160 30Hz*,	65 = 4096x2160 50Hz*,	66 = 4096x2160 59.94Hz*,
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67 = 4096x2160 60Hz*																																														

@GOH / @SOH	Output settings (Cont'd)
Parameter	aspect: Aspect ratio for sink device 0 = RESOLUTION [Default], 1 = 4:3, 2 = 5:3, 3 = 5:4, 4 = 16:9, 5 = 16:10, 6 = 256:135
	pattern: Test pattern 0 = OFF [Default], 1 = COLOR BAR, 2 = 16 STEP GRAY, 3 = 256 STEP GRAY, 4 = 100% WHITE RASTER, 5 = 100% RED RASTER, 6 = 100% GREEN RASTER, 7 = 100% BLUE RASTER, 8 = CROSS HATCH, 9 = VERTICAL STRIPE, 10 = OUTPUT FRAME
	h_zoom : Horizontal image size v_zoom : Vertical image size 2000 to 210000 = 20.00% to 2100.00% [Default] 10000 (100.00%)
	h_posi : Horizontal image position v_posi : Vertical image position -210000 to +210000 = -2100.00% to +2100.00% [Default] +0 (0.00%)
	m_red : Blank color (Red) m_green: Blank color (Green) m_blue : Blank color (Blue) b_red : Background color (Red) b_green : Background color (Green) b_blue : Background color (Blue) 0 to 255 [Default] 0 (Black)
	c_red : Output contrast (Red) c_green : Output contrast (Green) c_blue : Output contrast (Blue) 0 to 200 [Default] 100
	brightness: Output brightness 0 to 200 [Default] 100
	mode: Effect mode 0 = CUT, 1 = FADE OUT-IN [Default], 2=FREEZE
	hdcp: HDCP output 0 = HDCP 2.2 has priority. [Default for 4K@60 scan conversion output board and 4K@60 scan conversion multiview output board], 1 = HDCP 1.4 is encrypted. [Default for 1080p scan conversion output board] 2 = HDCP is encrypted only if input signal is with HDCP., 3 = HDCP is not encrypted.

@GOH / @SOH		Output settings (Cont'd)
Getting example	Command Response	@GOH,1<CR><LF> @GOH,1,1,17,0,0,10000,10000,+0,+0,0,0,0,0,0,100,100,100,100,1,1<CR><LF>
	Description	Getting the OUT1 output settings - Output resolution mode : Automatically output with WXGA@60(2048x1152) - Aspect ratio for sink device : To be output with aspect ratio of output resolution - Test pattern : OFF - Horizontal image size : 100.00% - Vertical image size : 100.00% - Horizontal image position : 0.00% - Vertical image position : 0.00% - Blank color : "0" (black) for all (red, green, and blue) - Background color : "0" (black) for all (red, green, and blue) - Output contrast : 100% for all (red, green, and blue) - Output brightness : 100% - Video transition effect : Fade out/Fade in - HDCP output : HDCP 1.4 is encrypted.
Setting example	Command Response	@SOH,1,0,27,0,0,10000,10000,0,0,0,0,0,0,100,100,100,100,0,2<CR><LF> @SOH,1,0,27,0,0,10000,10000,0,0,0,0,0,0,100,100,100,100,0,2<CR><LF>
	Description	Setting the OUT1 output settings as follows: - Output resolution mode : 1080p@59(1920x1080) fixed - Aspect ratio for sink device : To be output with aspect ratio of output resolution - Test pattern : OFF - Horizontal image size : 100.00% - Vertical image size : 100.00% - Horizontal image position : 0.00% - Vertical image position : 0.00% - Blank color : "0" (black) for all (red, green, and blue) - Background color : "0" (black) for all (red, green, and blue) - Output contrast : 100% for all (red, green, and blue) - Output brightness : 100% - Video transition effect : Fade out/Fade in - HDCP output : HDCP is encrypted only if input signal is with HDCP. Completed
Remarks		—

3.4.4 Output

Scan conversion output only

@GUY / @SUY		Disabling synchronous signal output when no video signal is input
Getting	Command	@GUY, out_ch<CR><LF>
	Response	@GUY, out_ch, time<CR><LF>
Setting	Command	@SUY, out_ch, time<CR><LF>
	Response	@SUY, out_ch, time<CR><LF>
Parameter		<p>out_ch: Output channel 1 to n = OUT1 to OUTn</p> <p>time: Time from when video signal is not input to when synchronous signal output is stopped. 4 = OFF (Continue to output synchronous signal output) [Default], 5 to 60 = 5 sec. to 60 sec., -2 = No scan conversion output board is installed. (For response only)</p>
Getting example	Command	@GUY,1<CR><LF>
	Response	@GUY,1,4<CR><LF>
	Description	Getting the setting of current output channel1 OFF (Continue to output synchronous signal output)
Setting example	Command	@SUY,1,5<CR><LF>
	Response	@SUY,1,5<CR><LF>
	Description	Setting the timeout signal of output channel 1 to five seconds Completed
Remarks		—

Scan conversion output only

@GBO / @SBO		Output video for when no input video
Getting	Command	@GBO, out_ch<CR><LF>
	Response	@GBO, out_ch, video<CR><LF>
Setting	Command	@SBO, out_ch, video<CR><LF>
	Response	@SBO, out_ch, video<CR><LF>
Parameter		out_ch: Output channel 1 to n = OUT1 to OUTn video: Output video for when no input video 0 = BACK COLOR [Default], 1 to 4 = BITMAP1 to BITMAP4, -2 = No scan conversion output board is installed. (For response only)
Getting example	Command	@GBO,1<CR><LF>
	Response	@GBO,1,0<CR><LF>
	Description	Getting the setting of current output channel1 BACK COLOR
Setting example	Command	@SBO,1,1<CR><LF>
	Response	@SBO,1,1<CR><LF>
	Description	Setting the output video of output channel1 to BITMAP1 Completed
Remarks		4K@60 scan conversion multiview output board cannot be set.

Scan conversion output only

@GEN / @SEN		HDCP output
Getting	Command	@GEN, out_ch<CR><LF>
	Response	@GEN, out_ch, hdcp<CR><LF>
Setting	Command	@SEN, out_ch, hdcp<CR><LF>
	Response	@SEN, out_ch, hdcp<CR><LF>
Parameter		<p>out_ch: Output channel 0 = All outputs (For setting only), 1 to n = OUT1 to OUTn</p> <p>hdcp: HDCP output 0 = HDCP 2.2 has priority.* [Default for 4K@60 scan conversion output board and 4K@60 scan conversion multiview output board], 1 = HDCP 1.4 is encrypted. [Default for 1080p scan conversion output board], 2 = HDCP is encrypted only if input signal is with HDCP., 3 = HDCP is not encrypted., -2 = No scan conversion output board is installed. (For response only) *“HDCP 2.2” cannot be selected for 1080p scan conversion output board.</p>
Getting example	Command	@GEN,1<CR><LF>
	Response	@GEN,1,2<CR><LF>
	Description	Getting the OUT1 HDCP output OUT1: HDCP is encrypted only if input signal is with HDCP.
Setting example	Command	@SEN,1,2<CR><LF>
	Response	@SEN,1,2<CR><LF>
	Description	Setting the OUT1 HDCP output to “2” (HDCP is encrypted only if input signal is with HDCP.) Completed
Remarks		—

Scan conversion output only

@GFA / @SFA		Video transition effect
Getting	Command	@GFA, out_ch<CR><LF>
	Response	@GFA, out_ch, mode<CR><LF>
Setting	Command	@SFA, out_ch, mode<CR><LF>
	Response	@SFA, out_ch, mode<CR><LF>
Parameter		out_ch: Output channel 0 = All outputs (For setting only), 1 to n = OUT1 to OUTn mode: Effect mode 0 = CUT, 1 = FADE OUT-IN [Default], 2= FREEZE -2 = No scan conversion output board is installed. (For response only)
Getting example	Command	@GFA,1<CR><LF>
	Response	@GFA,1,1<CR><LF>
	Description	Getting the OUT1 switching effect mode FADE OUT-IN
Setting example	Command	@SFA,1,1<CR><LF>
	Response	@SFA,1,1<CR><LF>
	Description	Setting the OUT1 switching effect mode to FADE OUT-IN Completed
Remarks		“FREEZE” can be selected for 4K@60 HDMI/DVI scan converter output board(FDX-SOV4UHS). If video synchronization is set to “ON”, “FADE OUT-IN” is selected automatically.

12G-SDI output only

@GOG / @SOG		SDI output gearbox mode
Getting	Command	@GOG<CR><LF>
	Response	@GOG, mode_1, mode_2 (, mode_3, ..., mode_m)<CR><LF>
Setting	Command	@SOG, slot_1, mode_1 (, slot_2, mode_2, ...)<CR><LF>
	Response	@SOG, slot_1, mode_1 (, slot_2, mode_2, ...)<CR><LF>
Parameter		mode_1-m: Gearbox mode 1 = Single link signal output [Default] 2 = 3G dual link signal output 3 = 6G dual link signal output 4 = 3G quad link signal output -2 = No 12G-SDI output board is installed. (For response only)
		slot_1-m: Output board 0 = All output boards, 1 to m = Output board 1 to Output board m
Getting example	Command	@GOG<CR><LF>
	Response	@GOG,1,1,4,-2<CR><LF>
	Description	Getting the SDI output gearbox mode Output board 1 and 2: Signal link signal output mode is set Output board 3: 3G quad link signal output mode is set Output board 4: No 12G-SDI output board is installed.
Setting example	Command	@SOG,1,4<CR><LF>
	Response	@SOG,1,4<CR><LF>
	Description	Setting the gearbox mode of Output board 1 to 3G quad link signal output Completed
Remarks		—

3.4.5 Input position, size, and masking

Scan conversion output only

@GAP / @SAP		Aspect ratio
Getting	Command	@GAP, in_ch<CR><LF>
	Response	@GAP, in_ch, aspect<CR><LF>
Setting	Command	@SAP, in_ch, aspect<CR><LF>
	Response	@SAP, in_ch, aspect<CR><LF>
Parameter		in_ch: Input channel 1 to n = IN1 to INn aspect: Aspect ratio of input signal 0 = AUTO [Default], 1 = FULL, 2 = 4:3, 3 = 5:3, 4 = 5:4, 5 = 16:9, 6 = 16:10, 7 = 16:9 LETTER BOX, -1 = No input board is installed. (For response only), -3 = No input signal (For response only)
Getting example	Command	@GAP,1<CR><LF>
	Response	@GAP,1,0<CR><LF>
	Description	Getting the IN1 aspect ratio of input signal AUTO
Getting example	Command	@GAP,1<CR><LF>
	Response	@GAP,1,-3<CR><LF>
	Description	No video is input to IN1.
Setting example	Command	@SAP,1,0<CR><LF>
	Response	@SAP,1,0<CR><LF>
	Description	Setting the IN1 aspect ratio of input signal to AUTO Completed
Remarks		If no signal is input, the setting command is not applied.

Scan conversion output only

@GEF / @SEF		Input settings
Getting	Command	@GEF, in_ch<CR><LF>
	Response	@GEF, in_ch, h_size, v_size, h_posi, v_posi, aspect, red, green, blue, brightness, sharpness, hue, saturation<CR><LF>
Setting	Command	@SEF, in_ch, h_size, v_size, h_posi, v_posi, aspect, red, green, blue, brightness, sharpness, hue, saturation<CR><LF>
	Response	@SEF, in_ch, h_size, v_size, h_posi, v_posi, aspect, red, green, blue, brightness, sharpness, hue, saturation<CR><LF>
Parameter		in_ch: Input channel 1 to n = IN1 to INn
		h_size: Horizontal active area [dot] -100 to +100 [Default] +0, -1 = No input board is installed. (For response only)*, -3 = No input signal (For response only)* *“v_size to saturation” is not displayed.
		v_size: Vertical active area [line] -30 to +30 [Default] +0
		h_posi: Horizontal start position [dot] -100 to +100 [Default] +0
		v_posi: Vertical start position [line] -30 to +30 [Default] +0
		aspect: Aspect ratio of input signal 0 = AUTO [Default], 1 = FULL, 2 = 4:3, 3 = 5:3, 4 = 5:4, 5 = 16:9, 6 = 16:10, 7 = 16:9 LETTER BOX
		red : Input contrast (Red) green : Input contrast (Green) blue : Input contrast (Blue) 0 to 200 [Default] 100
		bright: Input brightness 0 to 200 [Default] 100
		sharpness: Sharpness -5 to 15 [Default] 0
		hue: Hue 0 to 359 [Default] 0
		saturation: Saturation 0 to 200 [Default] 100

@GEF / @SEF		Input settings (Cont'd)
Getting example	Command	@GEF,1<CR><LF>
	Response	@GEF,1,+0,+0,+0,+0,0,100,100,100,100,0,0,100<CR><LF>
	Description	Getting the IN1 input settings - Horizontal and vertical active area : 0 - Horizontal and vertical start position : 0 - Aspect ratio of input signal : AUTO - Input contrast : 100% for all (red, green, and blue) - Input brightness : 100% - Sharpness : 0 - Hue : 0° - Saturation : 100%
Getting example	Command	@GEF,1<CR><LF>
	Response	@GEF,1,-3<CR><LF>
	Description	No video is input to IN1.
Setting example	Command	@SEF,1,0,0,0,0,0,100,100,100,100,0,0,100<CR><LF>
	Response	@SEF,1,0,0,0,0,0,100,100,100,100,0,0,100<CR><LF>
	Description	Setting the IN1 input settings as follows: - Horizontal and vertical active area : 0 - Horizontal and vertical start position : 0 - Aspect ratio of input signal : AUTO - Input contrast : 100% for all (red, green, and blue) - Input brightness : 100% - Sharpness : 0 - Hue : 0° - Saturation : 100% Completed
Remarks	If no signal is input, the setting command is not applied.	

12G-SDI input only

@GIG / @SIG		SDI input gearbox mode
Getting	Command	@GIG<CR><LF>
	Response	@GIG, mode_1, mode_2 (, mode_3, ..., mode_m)<CR><LF>
Setting	Command	@SIG, slot_1, mode_1 (, slot_2, mode_2, ...)<CR><LF>
	Response	@SIG, slot_1, mode_1 (, slot_2, mode_2, ...)<CR><LF>
Parameter		<p>mode_1-m: Gearbox mode</p> <ul style="list-style-type: none"> 0 = Determines automatically by CH-A input payload ID. 1 = Single link signal input [Default] 2 = 3G dual link signal input 3 = 6G dual link signal input 4 = 3G quad link signal input -2 = No 12G-SDI input board is installed. (For response only) <p>slot_1-m: Input board</p> <ul style="list-style-type: none"> 0 = All input boards, 1 to m = Input board 1 to Input board m
Getting example	Command	@GIG<CR><LF>
	Response	@GIG,1,1,0,-1<CR><LF>
	Description	Getting the SDI input gearbox mode Input board 1 and 2: Single link signal input Input board 3: Determines automatically by CH-A input payload ID. Input board 4: No 12G-SDI input board is installed.
Setting example	Command	@SIG,1,4<CR><LF>
	Response	@SIG,1,4<CR><LF>
	Description	Setting the SDI input gearbox mode of Input board 1 to 3G quad link signal input Completed
Remarks		For FDX-S64U, @GIG/@SIG is not supported.

3.4.7 Input timing

Scan conversion output only

@GPI / @SPI		Horizontal/Vertical start position
Getting	Command	@GPI, in_ch<CR><LF>
	Response	@GPI, in_ch, h_posi, v_posi<CR><LF>
Setting	Command	@SPI, in_ch, h_posi, v_posi<CR><LF>
	Response	@SPI, in_ch, h_posi, v_posi<CR><LF>
Parameter		in_ch: Input channel 1 to n = IN1 to INn
		h_posi: Horizontal start position [dot] -100 to +100 [Default] +0, -1 = No input board is installed. (For response only)*, -3 = No input signal (For response only)* *“v_posi” is not displayed.
		v_posi: Vertical start position [line] -30 to +30 [Default] +0
Getting example	Command	@GPI,1<CR><LF>
	Response	@GPI,1,+0,+0<CR><LF>
	Description	Getting the IN1 start positions Horizontal and vertical start position: 0
Getting example	Command	@GPI,1<CR><LF>
	Response	@GPI,1,-3<CR><LF>
	Description	No video is input to IN1.
Setting example	Command	@SPI,1,0,0<CR><LF>
	Response	@SPI,1,0,0<CR><LF>
	Description	Setting the IN1 horizontal and vertical start positions to “0” Completed
Remarks		If no signal is input, the setting command is not applied.

Scan conversion output only

@GSI / @SSI		Horizontal/Vertical active area
Getting	Command	@GSI, in_ch<CR><LF>
	Response	@GSI, in_ch, h_size, v_size<CR><LF>
Setting	Command	@SSI, in_ch, h_size, v_size<CR><LF>
	Response	@SSI, in_ch, h_size, v_size<CR><LF>
Parameter		in_ch: Input channel 1 to n = IN1 to INn
		h_size: Horizontal active area [dot] -100 to +100 [Default] +0, -1 = No input board is installed. (For response only)*, -3 = No input signal (For response only)* *“v_size” is not displayed.
		v_size: Vertical active area [line] -30 to +30 [Default] +0
Getting example	Command	@GSI,1<CR><LF>
	Response	@GSI,1,+0,+0<CR><LF>
	Description	Getting the IN1 active area Horizontal and vertical active area: 0
Getting example	Command	@GSI,1<CR><LF>
	Response	@GSI,1,-3<CR><LF>
	Description	No video is input to IN1.
Setting example	Command	@SSI,1,0,0<CR><LF>
	Response	@SSI,1,0,0<CR><LF>
	Description	Setting the IN1 horizontal and vertical active area to “0” Completed
Remarks		If no signal is input, the setting command is not applied.

3.4.8 Picture controls

Scan conversion output only

@GOB / @SOB		Output brightness
Getting	Command	@GOB, out_ch<CR><LF>
	Response	@GOB, out_ch, brightness<CR><LF>
Setting	Command	@SOB, out_ch, brightness<CR><LF>
	Response	@SOB, out_ch, brightness<CR><LF>
Parameter		out_ch: Output channel 1 to n = OUT1 to OUTn brightness: Output brightness 0 to 200 [Default] 100, -2 = No scan conversion output board is installed. (For response only)
Getting example	Command	@GOB,1<CR><LF>
	Response	@GOB,1,110<CR><LF>
	Description	Getting the OUT1 brightness 110%
Setting example	Command	@SOB,1,110<CR><LF>
	Response	@SOB,1,110<CR><LF>
	Description	Setting the OUT1 brightness to 110% Completed
Remarks		—

Scan conversion output only

@GOC / @SOC		Output contrast
Getting	Command	@GOC, out_ch<CR><LF>
	Response	@GOC, out_ch, red, green, blue<CR><LF>
Setting	Command	@SOC, out_ch, red, green, blue<CR><LF>
	Response	@SOC, out_ch, red, green, blue<CR><LF>
Parameter		out_ch: Output channel 1 to n = OUT1 to OUTn red : Output contrast (Red) green : Output contrast (Green) blue : Output contrast (Blue) 0 to 200 [Default] 100, -2 = No scan conversion output board is installed. (For response only)
Getting example	Command	@GOC,1<CR><LF>
	Response	@GOC,1,105,100,95<CR><LF>
	Description	Getting the OUT1 contrast Red: 105%, Green: 100%, Blue: 95%
Setting example	Command	@SOC,1,105,100,95<CR><LF>
	Response	@SOC,1,105,100,95<CR><LF>
	Description	Setting the OUT1 contrast to 105% for red, 100% for green, 95% for blue Completed
Remarks		—

Scan conversion output only

@GGM / @SGM		Output gamma
Getting	Command	@GGM, out_ch<CR><LF>
	Response	@GGM, out_ch, gamma<CR><LF>
Setting	Command	@SGM, out_ch, gamma<CR><LF>
	Response	@SGM, out_ch, gamma<CR><LF>
Parameter		out_ch: Output channel 1 to n = OUT1 to OUTn
		gamma: Gamma 1 to 30 = 0.1 to 3.0 [Default] 10 = 1.0, -2 = No scan conversion output board is installed. (For response only)
Getting example	Command	@GGM,1<CR><LF>
	Response	@GGM,1,10<CR><LF>
	Description	Getting the OUT1 gamma 1.0
Setting example	Command	@SGM,1,10<CR><LF>
	Response	@SGM,1,10<CR><LF>
	Description	Setting the OUT1 gamma to 1.0 Completed
Remarks		—

Scan conversion output only

@GFL / @SFL		Input sharpness
Getting	Command	@GFL, in_ch<CR><LF>
	Response	@GFL, in_ch, sharp<CR><LF>
Setting	Command	@SFL, in_ch, sharp<CR><LF>
	Response	@SFL, in_ch, sharp<CR><LF>
Parameter		in_ch: Input channel 1 to n = IN1 to Inn
		sharp: Sharpness -5 to 15 [Default] 0, -1 = No input board is installed. (For response only), -3 = No input signal (For response only)
Getting example	Command	@GFL,1<CR><LF>
	Response	@GFL,1,0<CR><LF>
	Description	Getting the IN1 sharpness "0"
Getting example	Command	@GFL,1<CR><LF>
	Response	@GFL,1,-3<CR><LF>
	Description	No video is input to IN1.
Setting example	Command	@SFL,1,0<CR><LF>
	Response	@SFL,1,0<CR><LF>
	Description	Setting the IN1 sharpness to "0" Completed
Remarks		If no signal is input, the setting command is not applied.

Scan conversion output only

@GIB / @SIB		Input brightness
Getting	Command	@GIB, in_ch<CR><LF>
	Response	@GIB, in_ch, brightness<CR><LF>
Setting	Command	@SIB, in_ch, brightness<CR><LF>
	Response	@SIB, in_ch, brightness<CR><LF>
Parameter		in_ch: Input channel 1 to n = IN1 to INn brightness: Input brightness 0 to 200 [Default] 100, -1 = No input board is installed. (For response only), -3 = No input signal (For response only)
Getting example	Command	@GIB,1<CR><LF>
	Response	@GIB,1,110<CR><LF>
	Description	Getting the IN brightness 110%
Getting example	Command	@GIB,1<CR><LF>
	Response	@GIB,1,-3<CR><LF>
	Description	No video is input to IN1.
Setting example	Command	@SIB,1,110<CR><LF>
	Response	@SIB,1,110<CR><LF>
	Description	Setting the IN1 brightness to 110% Completed
Remarks		If no signal is input, the setting command is not applied.

Scan conversion output only

@GIC / @SIC		Input contrast
Getting	Command	@GIC, in_ch<CR><LF>
	Response	@GIC, in_ch, red, green, blue<CR><LF>
Setting	Command	@SIC, in_ch, red, green, blue<CR><LF>
	Response	@SIC, in_ch, red, green, blue<CR><LF>
Parameter		in_ch: Input channel 1 to n = IN1 to INn red : Input contrast (Red) green : Input contrast (Green) blue : Input contrast (Blue) 0 to 200 [Default] 100, -1 = No input board is installed. (For response only), -3 = No input signal (For response only)
Getting example	Command	@GIC,1<CR><LF>
	Response	@GIC,1,105,100,95<CR><LF>
	Description	Getting the IN1 contrast Red: 105%, Green: 100%, Blue: 95%
Getting example	Command	@GIC,1<CR><LF>
	Response	@GIC,1,-3,-3,-3<CR><LF>
	Description	No video is input to IN1.
Setting example	Command	@SIC,1,105,100,95<CR><LF>
	Response	@SIC,1,105,100,95<CR><LF>
	Description	Setting the IN1 contrast to 105% for red, 100% for green, 95% for blue Completed
Remarks		If no signal is input, the setting command is not applied.

Scan conversion output only

@GHU / @SHU		Input hue
Getting	Command	@GHU, in_ch<CR><LF>
	Response	@GHU, in_ch, hue<CR><LF>
Setting	Command	@SHU, in_ch, hue<CR><LF>
	Response	@SHU, in_ch, hue<CR><LF>
Parameter		in_ch: Input channel 1 to n = IN1 to INn hue: Hue 0 to 359 [Default] 0, -1 = No input board is installed. (For response only), -3 = No input signal (For response only)
Getting example	Command	@GHU,1<CR><LF>
	Response	@GHU,1,0<CR><LF>
	Description	Getting the IN1 hue 0°
Getting example	Command	@GHU,1<CR><LF>
	Response	@GHU,1,-3<CR><LF>
	Description	No video is input to IN1.
Setting example	Command	@SHU,1,0<CR><LF>
	Response	@SHU,1,0<CR><LF>
	Description	Setting the IN1 hue to 0° Completed
Remarks		If no signal is input, the setting command is not applied.

Scan conversion output only

@GST / @SST		Input saturation
Getting	Command	@GST, in_ch<CR><LF>
	Response	@GST, in_ch, saturation<CR><LF>
Setting	Command	@SST, in_ch, saturation<CR><LF>
	Response	@SST, in_ch, saturation<CR><LF>
Parameter		in_ch: Input channel 1 to n = IN1 to Inn saturation: Saturation 0 to 200 [Default] 100, -1 = No input board is installed. (For response only), -3 = No input signal (For response only)
Getting example	Command	@GST,1<CR><LF>
	Response	@GST,1,100<CR><LF>
	Description	Getting the IN1 saturation 100%
Getting example	Command	@GST,1<CR><LF>
	Response	@GST,1,-3<CR><LF>
	Description	No video is input to IN1.
Setting example	Command	@SST,1,105<CR><LF>
	Response	@SST,1,105<CR><LF>
	Description	Setting the IN1 saturation to 105% Completed
Remarks		If no signal is input, the setting command is not applied.

@GAS / @SAS		Audio embedding/Audio de-embedding
Getting	Command	@GAS, out_1<CR><LF>
	Response	@GAS, out_1, select_1 (, select_2, select_3, ...)<CR><LF>
Setting	Command	@SAS, out_1, select_1 (, out_2, select_2, ...)<CR><LF>
	Response	@SAS, out_1, select_1 (, out_2, select_2, ...)<CR><LF>
Parameter		<p>out_1-n: Output channel [For models other than FDX-S64U] 0 = All outputs of output boards (OUT1 to OUTn), 1 to n = OUT1 to OUTn, 300 = All outputs of analog audio (ANALOG OUT1 to ANALOG OUT12), 301 to 312 = ANALOG OUT1 to ANALOG OUT12, 500 = All outputs of Dante (DANTE OUT1 to DANTE OUT32), 501 to 532 = DANTE OUT1 to DANTE OUT32</p> <p>[For FDX-S64U] 0 = All outputs of output boards (OUT1 to OUTn), 1 to n = OUT1 to = OUTn, 300 = All analog audio outputs of SLOT-A (ANALOG-A OUT1 to ANALOG-A OUT12), 301 to 312 = ANALOG-A OUT1 to ANALOG-A OUT12, 400 = All analog audio outputs of SLOT-B (ANALOG-B OUT1 to ANALOG-B OUT12), 401 to 412 = ANALOG-B OUT1 to ANALOG-B OUT12, 500 = Dante all outputs of SLOT-A (DANTE-A OUT1 to DANTE-A OUT32), 501 to 532 = DANTE-A OUT1 to = DANTE-A OUT32, 600 = Dante all outputs of SLOT-B (DANTE-B OUT1 to DANTE-B OUT32), 601 to 632 = DANTE-B OUT1 to DANTE-B OUT32</p>
		<p>select_1-n: Selecting output audio Setting and default values vary depending on specified output channel. Refer to the User Guide for these values. [Output board outputs (OUT1 to OUTn)] [For models other than FDX-S64U] 0 = Video input channel audio that is being selected, 301 to 304 = ANALOG IN1 to ANALOG IN4, 501 to 532 = DANTE IN1 to DANTE IN32, -2 = No output board is installed. (For response only)</p> <p>[For FDX-S64U] 0 = Video input channel audio that is being selected, 301 to 304 = ANALOG-A IN1 to ANALOG-A IN4, 401 to 404 = ANALOG-B IN1 to ANALOG-B IN4, 501 to 532 = DANTE-A IN1 to DANTE-A IN32, 601 to 632 = DANTE-B IN1 to DANTE-B IN32, -2 = No output board is installed. (For response only)</p> <p>[Analog audio output (ANALOG OUT1 to 12, ANALOG-A OUT1 to 12, ANALOG-B OUT1 to 12) or Dante output (DANTE OUT1 to 32, DANTE-A OUT1 to 32, DANTE-B OUT1 to 32)] 1 to n = Audio of video input channel IN1 to INn, 101 to 100+n = Video input channel audio of OUT1 to OUTn, -2 = No analog audio/Dante audio board (For response only)</p>

Scan conversion multiview output only

@GWO / @SWO		Audio setting
Getting	Command	@GWO<CR><LF>
	Response	@GWO, window_1, window_2 (, window_3, ..., window_n)<CR><LF>
Setting	Command	@SWO, out_ch_1, window_1 (, out_ch_2, window_2, ...)<CR><LF>
	Response	@SWO, out_ch_1, window_1 (, out_ch_2, window_2, ...)<CR><LF>
Parameter		<p>window_1-n: Audio selection window 1 to 4 = Window A to Window D [Default] Window A -2 = No scan conversion output board is installed. (For response only)</p> <p>out_ch_1-n: Output channel 0 = All output channels 1 to n = OUT1 to OUTn</p>
Getting example	Command	@GWO<CR><LF>
	Response	@GWO,1,1,1,1<CR><LF>
	Description	Getting audio setting All output channels: Window A
Setting example	Command	@SWO,1,2<CR><LF>
	Response	@SWO,1,2<CR><LF>
	Description	Setting the audio setting of Output channel 1 to Window B Completed
Remarks		<p>This command is enabled for only the first channel of each scan conversion multiview output board.</p> <p style="text-align: right;">【See: 3.1 Board channel configuration】</p>

12G-SDI output only

@GGO / @SGO		SDI output audio group
Getting	Command	@GGO<CR><LF>
	Response	@GGO, primary_1, secondary_1, ..., primary_8, secondary_8 (, primary_9, secondary_9, ..., primary_n, secondary_n)<CR><LF>
Setting	Command	@SGO, out_1, primary_1, secondary_1 (, out_2, primary_2, secondary_2, ...)<CR><LF>
	Response	@SGO, out_1, primary_1, secondary_1 (, out_2, primary_2, secondary_2, ...)<CR><LF>
Parameter		primary_1-n : Primary audio secondary_1-n: Secondary audio 1 = Audio group 1 (1ch to 4ch) [Default] (primary), 2 = Audio group 2 (5ch to 8ch) [Default] (secondary), 3 = Audio group 3 (9ch to 12ch), 4 = Audio group 4 (13ch to 16ch), -1 = No 12G-SDI output board is installed. (For response only)
		in_1-n: Output channel 0 = All outputs, 1 to n = OUT1 to OUTn
Getting example	Command	@GGO<CR><LF>
	Response	@GGO,1,2,1,2,1,2,1,2,1,2,1,2,1,2,1,2,1,2,1,2,1,2,-2,-2,-2,-2,-2,-2,-2,-2<CR><LF>
	Description	Getting the SDI output audio group Primary audio of OUT1 to OUT12 : Audio group 1 Secondary audio : Audio group 2 OUT13 to 16 : No 12G-SDI output board is installed.
Setting example	Command	@SGO,0,3,4<CR><LF>
	Response	@SGO,0,3,4<CR><LF>
	Description	Setting the primary audio of all output channels to Audio group 3, secondary audio to Audio group 4 Completed
Remarks		The same audio group cannot be set for primary audio and secondary audio.

SDI input only

@GAG / @SAG		SDI input audio group
Getting	Command	@GAG<CR><LF>
	Response	@GAG, primary_1, secondary_1, ..., primary_8, secondary_8 (, primary_9, secondary_9, ..., primary_n, secondary_n)<CR><LF>
Setting	Command	@SAG, in_1, primary_1, secondary_1 (, in_2, primary_2, secondary_2, ...)<CR><LF>
	Response	@SAG, in_1, primary_1, secondary_1 (, in_2, primary_2, secondary_2, ...)<CR><LF>
Parameter		primary_1-n : Primary audio secondary_1-n: Secondary audio 1 = Audio group 1 (1ch to 4ch) [Default] (primary), 2 = Audio group 2 (5ch to 8ch) [Default] (secondary), 3 = Audio group 3 (9ch to 12ch), 4 = Audio group 4 (13ch to 16ch), -1 = No SDI input board is installed. (For response only)
		in_1-n: Input channel 0 = All inputs, 1 to n = IN1 to INn
Getting example	Command	@GAG<CR><LF>
	Response	@GAG,1,2,1,2,1,2,1,2,1,2,1,2,1,2,1,2,1,2,1,2,1,2,-1,-1,-1,-1,-1,-1,-1,-1<CR><LF>
	Description	Getting the SDI input audio group Primary audio of IN1 to 12 : Audio group 1 Secondary audio : Audio group 2 IN13 to 16 : No SDI input board is installed.
Setting example	Command	@SAG,0,3,4<CR><LF>
	Response	@SAG,0,3,4<CR><LF>
	Description	Setting the primary audio of all input channels to Audio group 3, secondary audio to Audio group 4 Completed
Remarks		The same audio group cannot be set for primary audio and secondary audio.

3.4.11 EDID

Boards other than SDI

@GVF / @SVF		Resolution								
Getting	Command	@GVF<CR><LF>								
	Response	@GVF, edid_1, ..., edid_8 (, edid_9, ..., edid_n)<CR><LF>								
Setting	Command	@SVF, in_1, edid_1 (, in_2, edid_2, ...)<CR><LF>								
	Response	@SVF, in_1, edid_1 (, in_2, edid_2, ...)<CR><LF>								
Parameter		<p>edid_1-n: EDID resolution</p> <ul style="list-style-type: none"> 0 = External EDID, 1 = Copied EDID 1, 2 = Copied EDID 2, 3 = Copied EDID 3, 4 = Copied EDID 4, 5 = 1080p(1920x1080), 6 = 720p(1280x720), 7 = 1080i(1920x1080), 8 = SVGA(800x600), 9 = XGA(1024x768), 10 = VESA720(1280x720), 11 = WXGA(1280x768), 12 = WXGA(1280x800), 13 = Quad-VGA(1280x960), 14 = SXGA(1280x1024), 15 = WXGA(1360x768), 16 = WXGA(1366x768), 17 = SXGA+(1400x1050), 18 = WXGA+(1440x900), 19 = WXGA++(1600x900), 20 = UXGA(1600x1200), 21 = WSXGA+(1680x1050), 22 = VESA1080(1920x1080), 23 = WUXGA(1920x1200), 24 = QWXGA(2048x1152), 25 = WQHD(2560x1440), 26 = WQXGA(2560x1600), 40 = 2160p@30(3840x2160), 41 = 2160p@60(4:2:0)(3840x2160), 42 = 2160p@60(4:4:4)(3840x2160)*1, 43 = 4096x2160@30, 44 = 4096x2160@60(4:2:0), 45 = 4096x2160@60(4:4:4)*1, -1 = No HDMI/DVI input board or HDBaseT/SDVoE input board is installed. <p style="text-align: center;">(For response only)</p> <p>[Default] (Depending on input board or unit.)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center;">Input boards</th> <th style="width: 50%; text-align: center;">Default</th> </tr> </thead> <tbody> <tr> <td>4K@60 HDMI/DVI (FDX-SIV4UH)</td> <td>Other than FDX-S64U: 42 = 2160p@60(4:4:4)(3840x2160)</td> </tr> <tr> <td>4K@60 SDVoE (FDX-SIV4UC)</td> <td>FDX-S64U: 41 = 2160p@60(4:2:0)(3840x2160)</td> </tr> <tr> <td>4K@60 HDBaseT (FDX-SIV4UT)</td> <td>41 = 2160p@60(4:2:0)(3840x2160)</td> </tr> </tbody> </table> <p>*1 HDBaseT input board (FDX-SIV4UT) and FDX-S64U are not supported.</p>	Input boards	Default	4K@60 HDMI/DVI (FDX-SIV4UH)	Other than FDX-S64U: 42 = 2160p@60(4:4:4)(3840x2160)	4K@60 SDVoE (FDX-SIV4UC)	FDX-S64U: 41 = 2160p@60(4:2:0)(3840x2160)	4K@60 HDBaseT (FDX-SIV4UT)	41 = 2160p@60(4:2:0)(3840x2160)
Input boards	Default									
4K@60 HDMI/DVI (FDX-SIV4UH)	Other than FDX-S64U: 42 = 2160p@60(4:4:4)(3840x2160)									
4K@60 SDVoE (FDX-SIV4UC)	FDX-S64U: 41 = 2160p@60(4:2:0)(3840x2160)									
4K@60 HDBaseT (FDX-SIV4UT)	41 = 2160p@60(4:2:0)(3840x2160)									
		<p>in_1-n: Input channel</p> <p>1 to n = IN1 to INn</p>								

Boards other than SDI

@GAF / @SAF		Audio format																								
Getting	Command	@GAF,in<CR><LF>																								
	Response	@GAF, in, format_1, frequency_1, ···, format_7, frequency_7<CR><LF>																								
Setting	Command	@SAF, in, format_1, frequency_1 (, format_2, frequency_2, ···)<CR><LF>																								
	Response	@SAF, in, format_1, frequency_1 (, format_2, frequency_2, ···)<CR><LF>																								
Parameter		<p>in: Input channel 1 to n = IN1 to INn</p> <p>format_1-7: Audio format 0 = LPCM, 1 = AC-3/Dolby Digital, 2 = AAC, 3 = Dolby Digital Plus, 4 = DTS, 5 = DTS-HD, 6 = Dolby TrueHD</p> <p>frequency_1-7: Maximum sampling frequency 0 = OFF (Not output), 1 = 32 kHz, 2 = 44.1 kHz, 3 = 48 kHz, 4 = 88.2 kHz, 5 = 96 kHz, 6 = 176.4 kHz, 7 = 192 kHz, -1 = No HDMI/DVI input board or HDBaseT/SDVoE input board is installed. (For response only)</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Audio format</th> <th>Maximum sampling frequency (kHz)</th> <th>Default</th> </tr> </thead> <tbody> <tr> <td>LPCM</td> <td>32/44.1/48/88.2/96/176.4/192</td> <td>48</td> </tr> <tr> <td>AC-3/Dolby Digital</td> <td>OFF/32/44.1/48</td> <td>OFF</td> </tr> <tr> <td>AAC</td> <td>OFF/32/44.1/48/88.2/96</td> <td>OFF</td> </tr> <tr> <td>Dolby Digital Plus</td> <td>OFF/32/44.1/48</td> <td>OFF</td> </tr> <tr> <td>DTS</td> <td>OFF/32/44.1/48/96</td> <td>OFF</td> </tr> <tr> <td>DTS-HD</td> <td>OFF/44.1/48/88.2/96/176.4/192</td> <td>OFF</td> </tr> <tr> <td>Dolby TrueHD</td> <td>OFF/44.1/48/88.2/96/176.4/192</td> <td>OFF</td> </tr> </tbody> </table>	Audio format	Maximum sampling frequency (kHz)	Default	LPCM	32/44.1/48/88.2/96/176.4/192	48	AC-3/Dolby Digital	OFF/32/44.1/48	OFF	AAC	OFF/32/44.1/48/88.2/96	OFF	Dolby Digital Plus	OFF/32/44.1/48	OFF	DTS	OFF/32/44.1/48/96	OFF	DTS-HD	OFF/44.1/48/88.2/96/176.4/192	OFF	Dolby TrueHD	OFF/44.1/48/88.2/96/176.4/192	OFF
Audio format	Maximum sampling frequency (kHz)	Default																								
LPCM	32/44.1/48/88.2/96/176.4/192	48																								
AC-3/Dolby Digital	OFF/32/44.1/48	OFF																								
AAC	OFF/32/44.1/48/88.2/96	OFF																								
Dolby Digital Plus	OFF/32/44.1/48	OFF																								
DTS	OFF/32/44.1/48/96	OFF																								
DTS-HD	OFF/44.1/48/88.2/96/176.4/192	OFF																								
Dolby TrueHD	OFF/44.1/48/88.2/96/176.4/192	OFF																								
Getting example	Command	@GAF,1<CR><LF>																								
	Response	@GAF,1,0,3,1,0,2,0,3,0,4,0,5,0,6,0<CR><LF>																								
	Description	Getting the IN1 audio format and maximum sampling frequency Maximum sampling frequency of LPCM : 48 kHz Other audio format : OFF																								
Setting example	Command	@SAF,1,0,7<CR><LF>																								
	Response	@SAF,1,0,7<CR><LF>																								
	Description	Setting the IN1 audio format and maximum sampling frequency to LPCM and 192 kHz																								
Remarks		<p>Setting commands are for setting the audio formats and the maximum sampling frequencies.</p> <p>LPCM is always enabled, you can skip this menu unless you need to change the sampling frequency.</p> <p>This command is valid only if “@GVF / @SVF Resolution” is set to “5” to “26” and “40” to “45” (Built-in EDID).</p>																								

3.4.12 RS-232C

@GCT / @SCT		RS-232C communication
Getting	Command	@GCT<CR><LF>
	Response	@GCT, baudrate, length, parity, stop<CR><LF>
Setting	Command	@SCT, baudrate, length, parity, stop<CR><LF>
	Response	@SCT, baudrate, length, parity, stop<CR><LF>
Parameter		baudrate: Baud rate 0 = 4800 bps, 1 = 9600 bps [Default], 2 = 14400 bps, 3 = 19200 bps, 4 = 38400 bps
		length: Data bit length 0 = 7 bit, 1 = 8 bit [Default]
		parity: Parity check 0 = NONE [Default], 1 = ODD, 2 = EVEN
		stop: Stop bit 0 = 1 bit [Default], 1 = 2 bit
Getting example	Command	@GCT<CR><LF>
	Response	@GCT,1,1,0,0<CR><LF>
	Description	Getting the RS-232C communication setting - Baud rate : 9600 bps - Data bit length : 8 bit - Parity check : NONE - Stop bit : 1 bit
Setting example	Command	@SCT,1,1,0,0<CR><LF>
	Response	@SCT,1,1,0,0<CR><LF>
	Description	Setting the RS-232C communication setting as follows: - Baud rate : 9600 bps - Data bit length : 8 bit - Parity check : NONE - Stop bit : 1 bit Completed
Remarks		If RS-232C communication setting is changed, the communication may be disabled. Change the environmental settings based on the FDX-S settings.

3.4.13 LAN

@GIP / @SIP		IP address
Getting	Command	@GIP<CR><LF>
	Response	@GIP, unit_1, unit_2, unit_3, unit_4<CR><LF>
Setting	Command	@SIP, unit_1, unit_2, unit_3, unit_4<CR><LF>
	Response	@SIP, unit_1, unit_2, unit_3, unit_4<CR><LF>
Parameter		unit_1 to unit_4: Upper bit of the IP address to Lower bit of the IP address 0 to 255 = 8 bit (Decimal notation) [Default] 192.168.1.199
Getting example	Command	@GIP<CR><LF>
	Response	@GIP,192,168,3,2<CR><LF>
	Description	Getting the IP address of the FDX-S 192.168.3.2
Setting example	Command	@SIP,192,168,3,2<CR><LF>
	Response	@SIP,192,168,3,2<CR><LF>
	Description	Setting the IP address of the FDX-S to 192.168.3.2 Completed
Remarks		If the IP address or communication setting is changed, the communication may be disabled. Change the environmental settings based on the FDX-S settings.

@GSB / @SSB		Subnet mask
Getting	Command	@GSB<CR><LF>
	Response	@GSB, unit_1, unit_2, unit_3, unit_4<CR><LF>
Setting	Command	@SSB, unit_1, unit_2, unit_3, unit_4<CR><LF>
	Response	@SSB, unit_1, unit_2, unit_3, unit_4<CR><LF>
Parameter		unit_1 to unit_4: Upper bit of the subnet mask to Lower bit of the subnet mask 0 to 255 = 8 bit (Decimal notation) [Default] 255.255.255.0
Getting example	Command	@GSB<CR><LF>
	Response	@GSB,255,255,192,0<CR><LF>
	Description	Getting the subnet mask of the FDX-S 255.255.192.0 (= 18bit)
Setting example	Command	@SSB,255,255,192,0<CR><LF>
	Response	@SSB,255,255,192,0<CR><LF>
	Description	Setting the subnet mask of the FDX-S to 255.255.192.0 (= 18 bit) Completed
Remarks		If the IP address or communication setting is changed, the communication may be disabled. Change the environmental settings based on the FDX-S settings.

@GGW / @SGW		Gateway address
Getting	Command	@GGW<CR><LF>
	Response	@GGW, unit_1, unit_2, unit_3, unit_4<CR><LF>
Setting	Command	@SGW, unit_1, unit_2, unit_3, unit_4<CR><LF>
	Response	@SGW, unit_1, unit_2, unit_3, unit_4<CR><LF>
Parameter		unit_1 to unit_4 : Upper bit of the Gateway address to Lower bit of the Gateway address 0 to 255 = 8 bit (in decimal) Default: 0.0.0.0
Getting example	Command	@GGW<CR><LF>
	Response	@GGW,192,168,1,254<CR><LF>
	Description	Getting the Gateway address of the FDX-S 192.168.1.254
Setting example	Command	@SGW,192,168,1,254<CR><LF>
	Response	@SGW,192,168,1,254<CR><LF>
	Description	Setting the Gateway address of the FDX-S to 192.168.1.254 Completed
Remarks		If the IP address or communication setting is changed, the communication may be disabled. Change the environmental settings based on the FDX-S settings.

@GMC		MAC address
Getting	Command	@GMC<CR><LF>
	Response	@GMC, unit_1, unit_2, unit_3, unit_4, unit_5, unit_6<CR><LF>
Parameter		unit_1 to unit_6: Upper bit of the MAC address to Lower bit of the MAC address 00 to FF = 8 bit (in hexadecimal)
Getting example	Command	@GMC<CR><LF>
	Response	@GMC,00,08,E5,65,00,00<CR><LF>
	Description	Getting the MAC address 00-08-E5-65-00-00
Remarks		—

@GLP / @SLP		TCP port number
Getting	Command	@GLP<CR><LF>
	Response	@GLP, port, connection<CR><LF>
Setting	Command	@SLP, port, connection<CR><LF>
	Response	@SLP, port, connection<CR><LF>
Parameter		port: TCP port number 1100, 6000 to 6999 [Default] 1100
		Reserve: 1 (Fixed)
Getting example	Command	@GLP<CR><LF>
	Response	@GLP,1100,1<CR><LF>
	Description	Getting the TCP port number of the FDX-S 1100; 8 connection setting disabled
Setting example	Command	@SLP,1100,1<CR><LF>
	Response	@SLP,1100,1<CR><LF>
	Description	Setting the port number and 8-connection setting of the FDX-S to 1100 and OFF, respectively Completed
Remarks		If the IP address or communication setting is changed, the communication may be disabled. Change the environmental settings based on the FDX-S settings.

@GLD / @SLD		Automatic disconnection time (Timeout)
Getting	Command	@GLD, service<CR><LF>
	Response	@GLD, service, time<CR><LF>
Setting	Command	@SLD, service, time<CR><LF>
	Response	@SLD, service, time<CR><LF>
Parameter		service 1 (Fixed)
		time : Automatic disconnection time 0 = NOT DISCONNECT 1 to 180 = 1 to 180 sec. Default: 30 sec.
Getting example	Command	@GLD,1<CR><LF>
	Response	@GLD,1,120<CR><LF>
	Description	Getting the automatic disconnection time of the FDX-S 120 sec.
Setting example	Command	@SLD,1,120<CR><LF>
	Response	@SLD,1,120<CR><LF>
	Description	Setting the automatic disconnection time of the FDX-S Completed
Remarks		—

3.4.14 Preset memory

@RCM		Recalling crosspoint
Setting	Command	@RCM, memory<CR><LF>
	Response	@RCM, memory<CR><LF>
Parameter		memory: Crosspoint memory 1 to 32
Setting example	Command	@RCM,1<CR><LF>
	Response	@RCM,1<CR><LF>
	Description	Recalling the crosspoint of Crosspoint memory 1 Completed
Remarks		—

@SCM		Saving crosspoint memory
Setting	Command	@SCM, memory (, name)<CR><LF>
	Response	@SCM, memory (, name)<CR><LF>
Parameter		memory: Crosspoint memory 1 to 32 name: Memory name Up to 10 characters from 20 to 7D from ASCII code If you skip this parameter ("name"), only the crosspoint settings are saved without changing its name.
Setting example	Command	@SCM,1,MEMORY1<CR><LF>
	Response	@SCM,1,MEMORY1<CR><LF>
	Description	Saving the crosspoint status to Crosspoint memory 1 with the name of MEMORY1 Completed
Remarks		Even if some channels are set not to be controlled, settings of all output channels are saved. You can change channel control setting in " @GCM / @ECM Editing crosspoint ".

@RPM		Recalling preset memory
Setting	Command	@RPM, preset<CR><LF>
	Response	@RPM, preset<CR><LF>
Parameter		preset: Preset memory 1 to 32
Setting example	Command	@RPM,1<CR><LF>
	Response	@RPM,1<CR><LF>
	Description	Recalling the Preset memory 1 Completed
Remarks		—

@SPM		Saving preset memory
Setting	Description	Overwriting all
	Command	@SPM, preset (, name)<CR><LF>
	Response	@SPM, preset (, name)<CR><LF>
Parameter		preset: Preset memory 1 to 32
		name: Memory name Up to 10 characters from 20 to 7D from ASCII code If you skip this parameter ("name"), only current settings are saved without changing its name.
Setting example	Command	@SPM,1,MEMORY1<CR><LF>
	Response	@SPM,1,MEMORY1<CR><LF>
	Description	Saving the current settings to Preset memory 1 with the name of MEMORY1 Completed
Remarks		—

@GPM		Preset memory number matching I/O channel status
Getting	Command	@GPM<CR><LF>
	Response	@GPM, preset<CR><LF>
Parameter		preset: Preset memory number that includes preset memory matching the current FDX-S crosspoint. 000 = None, 001 to 032 = Preset memory 1 to Preset memory 32
Getting example	Command	@GPM<CR><LF>
	Response	@GPM,000<CR><LF>
	Description	Getting the number of preset memory matching current FDX-S I/O crosspoint None
Remarks		If several memory numbers are matched, the smaller number will be returned.

Scan conversion output only

@GBT / @SBT		Aspect ratio
Getting	Command	@GBT, ch<CR><LF>
	Response	@GBT, ch, aspect_1, aspect_2 aspect_3 aspect_4<CR><LF>
Setting	Command	@SBT, ch, bitmap, aspect<CR><LF>
	Response	@SBT, ch, bitmap, aspect<CR><LF>
Parameter		ch: Output channel 0 = All outputs, 1 to n = OUT1 to OUTn
		aspect/aspect_1-4: Aspect ratio 0 = AUTO [Default], 1 = FULL, 2 = THROUGH, -2 = No scan conversion output board is installed. (For response only)
		bitmap: Bitmap number 0 = ALL BITMAPS, 1 = BITMAP1, 2 = BITMAP2, 3 = BITMAP3, 4 = BITMAP4
Getting example	Command	@GBT,1<CR><LF>
	Response	@GBT,1,1,0,0,0<CR><LF>
	Description	Getting the aspect ratio for when BITMAP1 is output BITMAP1 : FULL Other BITMAPS : AUTO
Setting example	Command	@SBT,1,1,1<CR><LF>
	Response	@SBT,1,1,1<CR><LF>
	Description	Setting the aspect ratio for when BITMAP1 is output to OUT1 to FULL Completed
Remarks		—

3.4.16 Multi window output

Scan conversion multiview output only

@GOP / @SOP		Window size/Window position
Getting	Command	@GOP, out_ch<CR><LF>
	Response	@GOP, out_ch, h_zoom, v_zoom, h_posi, v_posi<CR><LF>
Setting	Command	@SOP, out_ch, h_zoom, v_zoom, h_posi, v_posi<CR><LF>
	Response	@SOP, out_ch, h_zoom, v_zoom, h_posi, v_posi<CR><LF>
Parameter		out_ch: Output window 1 to n = OUT1 to OUTn h_zoom: Horizontal image size 500 to 40000 = 5.00% to 400.00% [Default] 5000 (50.00%) -2 = No scan conversion multiview output board (For response only)* *h_zoom, v_zoom, and h_posi, v_posi are not displayed. v_zoom: Vertical image size 500 to 40000 = 5.00% to 400.00% [Default] 5000 (50.00%) h_posi: Horizontal image position -40000 to +10000 = -400.00% to +100.00% [Default] +0 (0.00%),+5000 (50.00%) v_posi: Vertical image position -40000 to +10000 = -400.00% to +100.00% [Default] +0 (0.00%),+5000 (50.00%)
Getting example	Command	@GOP,1<CR><LF>
	Response	@GOP,1,10000,10000,+0,+0<CR><LF>
	Description	Getting the Output window 1 image size and position Horizontal and vertical image size : 100.00% Horizontal and vertical image position : 0.00%
Setting example	Command	@SOP,1,5000,5000,0,0<CR><LF>
	Response	@SOP,1,5000,5000,0,0<CR><LF>
	Description	Setting the Output window1 horizontal sizes, vertical sizes. Horizontal position, and vertical position to 50.00%, 50.00%, 0.00%, and 0.00%, respectively. Completed
Remarks		—

Scan conversion multiview output only

@GQP / @SQP		Image size/Image position
Getting	Command	@GQP, out_ch<CR><LF>
	Response	@GQP, out_ch, h_zoom, v_zoom, h_posi, v_posi<CR><LF>
Setting	Command	@SQP, out_ch, h_zoom, v_zoom, h_posi, v_posi<CR><LF>
	Response	@SQP, out_ch, h_zoom, v_zoom, h_posi, v_posi<CR><LF>
Parameter		<p>out_ch: Output window 1 to n = OUT1 to OUTn</p> <p>h_zoom: Horizontal image size 2000 to 40000 = 20.00% to 400.00% [Default] 10000 (100.00%) -2 = No scan conversion multiview output board (For response only)* *h_zoom, v_zoom, h_posi, and v_posi are not displayed.</p> <p>v_zoom: Vertical image size 2000 to 40000 = 20.00% to 400.00% [Default] 10000 (100.00%)</p> <p>h_posi: Horizontal image position -40000 to +10000 = -400.00% to +100.00% [Default] +0 (0.00%)</p> <p>v_posi: Vertical image position -40000 to +10000 = -400.00% to +100.00% [Default] +0 (0.00%)</p>
Getting example	Command	@GQP,1<CR><LF>
	Response	@GQP,1,10000,10000,+0,+0<CR><LF>
	Description	Getting the image size and position the current Output window 1 Horizontal and vertical image size : 100.00% Horizontal and vertical image position : 0.00%
Setting example	Command	@SQP,1,10000,10000,0,0<CR><LF>
	Response	@SQP,1,10000,10000,0,0<CR><LF>
	Description	Setting the Output window 1 horizontal sizes, vertical sizes, horizontal position, and vertical position to 100.00%, 100.00%, 0.00%, and 0.00%, respectively. Completed
Remarks		—

Scan conversion multiview output only

@GEB / @SEB		Background color
Getting	Command	@GEB, out_ch<CR><LF>
	Response	@GEB, out_ch, red, green, blue<CR><LF>
Setting	Command	@SEB, out_ch, red, green, blue<CR><LF>
	Response	@SEB, out_ch, red, green, blue<CR><LF>
Parameter		out_ch: Output window 1 to n = OUT1 to OUTn red : Background color (Red) green : Background color (Green) blue : Background color (Blue) 0 to 255 [Default] 0 (Black) -2 = No scan conversion multiview output board (For response only)
Getting example	Command	@GEB,1<CR><LF>
	Response	@GEB,1,0,0,0<CR><LF>
	Description	Getting the Output window 1 background color All: "0" (Black)
Setting example	Command	@SEB,1,0,0,0<CR><LF>
	Response	@SEB,1,0,0,0<CR><LF>
	Description	Setting all background colors of the Output window 1 to "0" (Black) Completed
Remarks		—

Scan conversion multiview output only

@GWP / @SWP		Window layer order
Getting	Command	@GWP, out_ch<CR><LF>
	Response	@GWP, out_ch, window_a, window_b, window_c, window_d<CR><LF>
Setting	Command	@SWP, out_ch, window_a, window_b, window_c, window_d<CR><LF>
	Response	@SWP, out_ch, window_a, window_b, window_c, window_d<CR><LF>
Parameter		out_ch: Channel of output board 1 to n = OUT1 to OUTn window_a to d: Window A to D layer order 1 to 4 = Front to back [Default] 1,2,3,4 -2 = No scan conversion multiview output board (For response only)
Getting example	Command	@GWP,1<CR><LF>
	Response	@GWP,1,1,2,3,4<CR><LF>
	Description	Getting the current window layer order of Output board 1 window_a > window_b > window_c > window_d
Setting example	Command	@SWP,1,1,2,3,4<CR><LF>
	Response	@SWP,1,1,2,3,4<CR><LF>
	Description	Setting the window layer order of Output board 1 to "window_a > window_b > window_c > window_d". Completed
Remarks		This command is enabled for only the first channel of each output board. [See: 3.1 Board channel configuration]

Scan conversion multiview output only

@GSE / @SSE		Video transition effect
Getting	Command	@GSE, out_ch<CR><LF>
	Response	@GSE, out_ch, mode<CR><LF>
Setting	Command	@SSE, out_ch, mode<CR><LF>
	Response	@SSE, out_ch, mode<CR><LF>
Parameter		out_ch: Output window 0 = All outputs (For setting only), 1 to n = OUT1 to OUTn mode: Fade out/Fade in 0 = OFF, 1 = ON [Default], -2 = No scan conversion multiview output board (For response only)
Getting example	Command	@GSE,1<CR><LF>
	Response	@GSE,1,1<CR><LF>
	Description	Getting the Output window 1 switching effect mode ON
Setting example	Command	@SSE,1,1<CR><LF>
	Response	@SSE,1,1<CR><LF>
	Description	Setting the Output window 1 switching effect mode to ON Completed
Remarks		—

Scan conversion multiview output only

@GWV / @SWV		Window ON/OFF
Getting	Command	@GWV, out_ch<CR><LF>
	Response	@GWV, out_ch, mode<CR><LF>
Setting	Command	@SWV, out_ch, mode<CR><LF>
	Response	@SWV, out_ch, mode<CR><LF>
Parameter		out_ch: Output window 0 = All outputs (For setting only), 1 to n = OUT1 to OUTn mode: Window ON/OFF 0 = OFF, 1 = ON [Default], -2 = No scan conversion multiview output board (For response only)
Getting example	Command	@GWV,1<CR><LF>
	Response	@GWV,1,1<CR><LF>
	Description	Getting the Output window 1 ON/OFF ON
Setting example	Command	@SWV,1,1<CR><LF>
	Response	@SWV,1,1<CR><LF>
	Description	Setting the Output window 1 ON/OFF to ON Completed
Remarks		—

Scan conversion multiview output only

@GTO / @STO		Overlay text position
Getting	Command	@GTO, out_ch<CR><LF>
	Response	@GTO, out_ch, position<CR><LF>
Setting	Command	@STO, out_ch, position<CR><LF>
	Response	@STO, out_ch, position<CR><LF>
Parameter		out_ch: Output window 0 = All outputs (For setting only), 1 to n = OUT1 to OUTn position: Image position 0 = OFF, 1 = TOP-LEFT [Default], 2 = TOP-CENTER, 3 = TOP-RIGHT, 4 = BOTTOM-LEFT, 5 = BOTTOM-CENTER, 6 = BOTTOM-RIGHT -2 = No scan conversion multiview output board (For response only)
Getting example	Command	@GTO,1<CR><LF>
	Response	@GTO,1,1<CR><LF>
	Description	Getting the Output window 1 overlay text position TOP-LEFT
Setting example	Command	@STO,1,1<CR><LF>
	Response	@STO,1,1<CR><LF>
	Description	Setting the Output window 1 overlay text position to TOP-LEFT Completed
Remarks		—

Scan conversion multiview output only

@GTS / @STS		Overlay text size
Getting	Command	@GTS, out_ch<CR><LF>
	Response	@GTS, out_ch, mode<CR><LF>
Setting	Command	@STS, out_ch, mode<CR><LF>
	Response	@STS, out_ch, mode<CR><LF>
Parameter		out_ch: Output window 0 = All outputs (For setting only), 1 to n = OUT1 to OUTn mode: Size 0 = SMALL, 1 = LARGE [Default], -2 = No scan conversion multiview output board (For response only)
Getting example	Command	@GTS,1<CR><LF>
	Response	@GTS,1,0<CR><LF>
	Description	Getting the Output window 1 overlay text size SMALL
Setting example	Command	@STS,1,0<CR><LF>
	Response	@STS,1,0<CR><LF>
	Description	Setting the Output window 1 overlay text size to SMALL Completed
Remarks		—

Scan conversion multiview output only

@GFW / @SFW		Window border size
Getting	Command	@GFW, out_ch<CR><LF>
	Response	@GFW, out_ch, width<CR><LF>
Setting	Command	@SFW, out_ch, width<CR><LF>
	Response	@SFW, out_ch, width<CR><LF>
Parameter		out_ch: Output window 1 to n = OUT1 to OUTn width: Window border size 0 to 15 = 0 pixel to 15 pixels [Default] 0 pixel -2 = No scan conversion multiview output board (For response only)
Getting example	Command	@GFW,1<CR><LF>
	Response	@GFW,1,0<CR><LF>
	Description	Getting the window border size of Output window 1 0
Setting example	Command	@SFW,1,0<CR><LF>
	Response	@SFW,1,0<CR><LF>
	Description	Setting the Output window 1 window border size to "0" Completed
Remarks		—

Scan conversion multiview output only

@GFC / @SFC		Window border color
Getting	Command	@GFC, out_ch<CR><LF>
	Response	@GFC, out_ch, red, green, blue<CR><LF>
Setting	Command	@SFC, out_ch, red, green, blue<CR><LF>
	Response	@SFC, out_ch, red, green, blue<CR><LF>
Parameter		out_ch: Output window 1 to n = OUT1 to OUTn red : Window border color (Red) green : Window border color (Green) blue : Window border color (Blue) 0 to 255 [Default] 0 (Black) -2 = No scan conversion multiview output board (For response only)
Getting example	Command	@GFC,1<CR><LF>
	Response	@GFC,1,0,0,0<CR><LF>
	Description	Getting the Output window 1 window border color All "0" (Black)
Setting example	Command	@SFC,1,0,0,0<CR><LF>
	Response	@SFC,1,0,0,0<CR><LF>
	Description	Setting all window border colors of the Output window 1 to "0" (Black) Completed
Remarks		—

Scan conversion multiview output only

@GEW / @SEW		Window synchronous mode
Getting	Command	@GEW, out_ch<CR><LF>
	Response	@GEW, out_ch, mode<CR><LF>
Setting	Command	@SEW, out_ch, mode<CR><LF>
	Response	@SEW out_ch, mode<CR><LF>
Parameter		out_ch : Output channel 0 = All outputs (For setting only), 1 to n = OUT1 to OUTn mode : Synchronous mode of Window D 0 = OFF, 1 = ON [Default] 1 -2 = No scan conversion output board is installed. (For response only)
Getting example	Command	@GEW,1<CR><LF>
	Response	@GEW,1,1<CR><LF>
	Description	Getting the synchronous mode of the Output window1 ON
Setting example	Command	@SEW,1,0<CR><LF>
	Response	@SEW,1,0<CR><LF>
	Description	Setting the synchronous mode of the Output window1 to "0" (OFF). Completed
Remarks		This setting is enabled if " @GES / @SES Video synchronization " is set to "1" (ON). This command is only for the first channel of each output board. 【See : 3.1 Board channel configuration】

Scan conversion multiview output only

@RWM		Recalling multi window memory
Setting	Command	@RWM, out_ch, preset<CR><LF>
	Response	@RWM, out_ch, preset<CR><LF>
Parameter		out_ch: Channel of output board 1 to n = OUT1 to OUTn preset: Multi window memory 1 to 10
Setting example	Command	@RWM,1,1<CR><LF>
	Response	@RWM,1,1<CR><LF>
	Description	Recalling the Output windows 1 to 4 to Multi window memory 1 Completed
Remarks		This command recalls only the first channel of each output board. 【See : 3.1 Board channel configuration】

Scan conversion multiview output only

@SWM		Saving multi window memory
Setting	Description	Overwriting all
	Command	@SWM, out_ch, preset (, name)<CR><LF>
	Response	@SWM, out_ch, preset (, name)<CR><LF>
Parameter		out_ch: Channel of output board 1 to n = OUT1 to OUTn
		preset: Multi window memory 1 to 10
		name: Memory name Up to 10 characters from 20 to 7D from ASCII code If you skip this parameter ("name"), only the current settings are saved without changing its name.
Setting example	Command	@SWM,1,1,MEMORY1<CR><LF>
	Response	@SWM,1,1,MEMORY1<CR><LF>
	Description	Saving the current Output windows 1 to 4 settings to Multi window memory 1 with the name of MRMORY1 Completed
Remarks		This command saves only the first channel of each output board. 【See: 3.1 Board channel configuration】

3.4.17 Configuring FDX-S

@GLS / @SLS		Front panel security lockout
Getting	Command	@GLS<CR><LF>
	Response	@GLS, lock<CR><LF>
Setting	Command	@SLS, lock<CR><LF>
	Response	@SLS, lock<CR><LF>
Parameter		lock: Front panel security lockout 0 = Unlocking [Default], 1 = Locking, 2 = Changing the current setting
Getting example	Command	@GLS<CR><LF>
	Response	@GLS,0<CR><LF>
	Description	Getting the lock status Unlocking
Setting example	Command	@SLS,1<CR><LF>
	Response	@SLS,1<CR><LF>
	Description	Enabling the front panel security lockout Completed
Remarks		—

@GLM / @SLM		Grouping front panel security lockout
Getting	Command	@GLM<CR><LF>
	Response	@GLM, channel, menu, preset<CR><LF>
Setting	Command	@SLM, channel, menu, preset<CR><LF>
	Response	@SLM, channel, menu, preset<CR><LF>
Parameter		channel : INPUT SELECT buttons, OUTPUT SELECT buttons, I/O channel selection buttons menu : MENU/ENTER button, Navigation buttons preset : PRESET LOAD button 0 = Not locked, 1 = Locked [Default]
Getting example	Command	@GLM<CR><LF>
	Response	@GLM,1,1,1<CR><LF>
	Description	Getting the button security lockout target - INPUT SELECT buttons, OUTPUT SELECT buttons, I/O channel selection buttons - MENU/ENTER button, Navigation buttons - PRESET LOAD button
Setting example	Command	@SLM,1,1,1<CR><LF>
	Response	@SLM,1,1,1<CR><LF>
	Description	Setting the button security lockout target as follows: - INPUT SELECT buttons, OUTPUT SELECT buttons, I/O channel selection buttons - MENU/ENTER button, Navigation buttons - PRESET LOAD button Completed
Remarks		—

@RBT		Reboot
Setting	Command	@RBT<CR><LF>
	Response	@RBT<CR><LF>
Setting example	Command	@RBT<CR><LF>
	Response	@RBT<CR><LF>
	Description	Rebooting the FDX-S Completed
Remarks		—

@CLR		Initialization
Setting	Command	@CLR, mode<CR><LF>
	Response	@CLR, mode<CR><LF>
Parameter		mode 0 = Initializes all settings, 1 = Initializes settings other than communication settings
Setting example	Command	@CLR,0<CR><LF>
	Response	@CLR,0<CR><LF>
	Description	Initializing all settings Completed
Remarks		The FDX-S reboots after initialization.

3.4.18 Status indication

@GIS		Input signal status (For each channel)																						
Getting	Command	@GIS, in, mode<CR><LF>																						
	Response	@GIS, in, mode, status_1 (, status_2, status_3, status_4, status_5)<CR><LF>																						
Parameter	in: Input channel 1 to n = IN1 to INn																							
	mode: Target status 0 = All statuses of input signal, 1 = Input mode/Input color depth, 2 = Input resolution/Vertical sync frequency, 3 = Input color space, 4 = Input audio/Input sampling frequency, 5 = Presence of HDCP																							
	status_1: Input mode/Input color depth																							
	<table border="1"> <thead> <tr> <th>Input mode</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>D</td> <td>DVI signal, without HDCP</td> </tr> <tr> <td>D</td> <td>DVI signal, with HDCP</td> </tr> <tr> <td>H</td> <td>HDMI signal, without HDCP</td> </tr> <tr> <td>H</td> <td>HDMI signal, with HDCP</td> </tr> <tr> <td>S</td> <td>SDI signal</td> </tr> <tr> <td>N</td> <td>No signal is input</td> </tr> </tbody> </table>	Input mode	Description	D	DVI signal, without HDCP	D	DVI signal, with HDCP	H	HDMI signal, without HDCP	H	HDMI signal, with HDCP	S	SDI signal	N	No signal is input	<table border="1"> <thead> <tr> <th>Input color depth</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>08</td> <td>24 bit/pixel (8 bit/component)</td> </tr> <tr> <td>10</td> <td>30 bit/pixel (10 bit/component)</td> </tr> <tr> <td>12</td> <td>36 bit/pixel (12 bit/component)</td> </tr> </tbody> </table>	Input color depth	Description	08	24 bit/pixel (8 bit/component)	10	30 bit/pixel (10 bit/component)	12	36 bit/pixel (12 bit/component)
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status_3: Input color space																								
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YCbCr 4:4:4	YCbCr 4:4:4 input																							
YCbCr 4:2:0	YCbCr 4:2:0 input																							
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status_4: Input audio/Input sampling frequency																								
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@GIS		Input signal status (For each channel) (Cont'd)														
		status_5: Presence of HDCP <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>HDCP OFF</td> <td>Signal without HDCP is input</td> </tr> <tr> <td>HDCP 1.4</td> <td>HDCP 1.4 signal</td> </tr> <tr> <td>HDCP 2.2 Type0</td> <td>HDCP 2.2 stream Type 0 signal</td> </tr> <tr> <td>HDCP 2.2 Type1</td> <td>HDCP 2.2 stream Type 1 signal</td> </tr> <tr> <td>NO SIGNAL</td> <td>No signal is input.</td> </tr> <tr> <td>NO BOARD</td> <td>No board is installed.</td> </tr> </tbody> </table>	Value	Description	HDCP OFF	Signal without HDCP is input	HDCP 1.4	HDCP 1.4 signal	HDCP 2.2 Type0	HDCP 2.2 stream Type 0 signal	HDCP 2.2 Type1	HDCP 2.2 stream Type 1 signal	NO SIGNAL	No signal is input.	NO BOARD	No board is installed.
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HDCP 2.2 Type1	HDCP 2.2 stream Type 1 signal															
NO SIGNAL	No signal is input.															
NO BOARD	No board is installed.															
Getting example	Command Response	@GIS,1,0<CR><LF> @GIS,1,0,H08,1920x1080p 59.94Hz,YCbCr 4:4:4,L-PCM 48kHz, HDCP 2.2 Type0<CR><LF>														
	Description	Getting IN1 all input signal statuses - Input video : HDMI mode - Input color depth : 24 bit/pixel (8 bit/component) - Input resolution/Vertical sync frequency : 1080p59.94Hz - Input color space : YCbCr 4:4:4 - Audio input/Audio input sampling frequency : 2-channel LPCM 48kHz - Presence of HDCP : HDCP 2.2 Type 0														
Remarks		—														

@GOS		Output signal status (For each channel)																										
Getting	Command	@GOS, out, mode<CR><LF>																										
	Response	@GOS, out, mode, status_1 (, status_2)<CR><LF>																										
Parameter		<p>out: Output channel 1 to n = OUT1 to OUTn</p> <p>mode: Target status 0 = All statuses of sink device, 1 = HDCP of sink device, 2 = HDCP authentication between the FDX-S and sink device</p> <p>status_1: HDCP of sink device</p> <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>HDCP 2.2 SUPPORT</td> <td>Device with HDCP 2.2 is connected.</td> </tr> <tr> <td>HDCP 1.4 SUPPORT</td> <td>Device with HDCP 1.4 is connected.</td> </tr> <tr> <td>HDCP NOT SUPPORT</td> <td>Device without HDCP is connected.</td> </tr> <tr> <td>HDCP NOT CHECK</td> <td>HDCP of sink device is not checked.</td> </tr> <tr> <td>UNCONNECTED</td> <td>Sink device is not connected.</td> </tr> <tr> <td>NO BOARD</td> <td>No board is installed</td> </tr> </tbody> </table> <p>status_2: HDCP authentication between the FDX-S and sink device</p> <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>HDCP OFF</td> <td>Signal with HDCP is not input</td> </tr> <tr> <td>HDCP OK</td> <td>Authentication succeeded</td> </tr> <tr> <td>HDCP ERROR</td> <td>Authentication failed</td> </tr> <tr> <td>HDCP CHECK NOW</td> <td>Being encrypted</td> </tr> <tr> <td>NO BOARD</td> <td>No board is installed</td> </tr> </tbody> </table>	Value	Description	HDCP 2.2 SUPPORT	Device with HDCP 2.2 is connected.	HDCP 1.4 SUPPORT	Device with HDCP 1.4 is connected.	HDCP NOT SUPPORT	Device without HDCP is connected.	HDCP NOT CHECK	HDCP of sink device is not checked.	UNCONNECTED	Sink device is not connected.	NO BOARD	No board is installed	Value	Description	HDCP OFF	Signal with HDCP is not input	HDCP OK	Authentication succeeded	HDCP ERROR	Authentication failed	HDCP CHECK NOW	Being encrypted	NO BOARD	No board is installed
Value	Description																											
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HDCP CHECK NOW	Being encrypted																											
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Getting example	Command	@GOS,1,0<CR><LF>																										
	Response	@GOS,1,0,HDCP 2.2 SUPPORT,HDCP OK<CR><LF>																										
	Description	Getting all statuses of OUT1 sink device - HDCP of the sink device : HDCP 2.2 - HDCP authentication : Completed																										
Remarks		—																										

@GHC		System status
Getting	Command	@GHC<CR><LF>
	Response	@GHC, voltage, rpm, temp, in, out, audio<CR><LF>
Parameter		voltage: Power supply voltage status 0 = Normal, 1 = Abnormal
		rpm: Fan status 0 = Normal, 1 = Abnormal
		temp: Internal temperature status 0 = Normal, 1 = Abnormal
		in: Input board communication status 0 = Normal, 1 = Abnormal
		out: Output board communication status 0 = Normal, 1 = Abnormal
		audio: Audio board status 0 = Normal, 1 = Abnormal
Getting example	Command	@GHC<CR><LF>
	Response	@GHC,0,0,0,0,0,0,0<CR><LF>
	Description	Getting the system check result Normal
Remarks		—

@GBS		Board status
Getting	Command	@GBS, board, slot<CR><LF>
	Response	@GBS, board, slot, temp, status<CR><LF>
Parameter		board: Input/Output board 0 = Input board, 1 = Output board, 2 = Audio board
		slot: Board position 1 to x = Board 1 to Board x "x": The number of output boards (Audio board: "1" or "2" fixed for FDX-S64U; "1" fixed for other models)
		temp: Temperature The value of temperature x 100 (e.g. 38.75°C: 3875), -1 = No board is installed. (Installed audio board: "0" fixed)
		status: Board status 0 = Normal, 1 = Abnormal, -1 = No board is installed.
Getting example	Command	@GBS,0,1<CR><LF>
	Response	@GBS,0,1,3425,0<CR><LF>
	Description	Getting the status of the Input board 1 Temperature : 34.25°C Status : Normal
Remarks		—

@GSS		Board mounting status
Getting	Command	@GSS, board<CR><LF>
	Response	@GSS, board, slot_1, slot_2 (, slot_3, ···, slot_m)<CR><LF>
Parameter		<p>board: Board selection 0 = Input board, 1 = Output board, 2 = Audio board</p> <p>slot_1-m: Board mounting status If “board” is set to “0”: 0 = No board is installed., 4 = 3G-SDI/HD-SDI/SD-SDI input (FDX-SIV4S) is installed, 101 = 4K@60 HDMI/DVI input (FDX-SIV4UH) is installed, 102 = 4K@60 HDBaseT input (FDX-SIV4UT) is installed, 104 = 12G-SDI/6G-SDI/3G-SDI/HD-SDI input (FDX-SIV4US) is installed, 108 = 4K@60 SDVoE input (FDX-SIV4UC) is installed</p> <p>If “board” is set to “1”: 0 = No board is installed., 4 = 1080p HDMI/DVI scan conversion output (FDX-SOV4HS) is installed, 5 = 1080p HDBaseT scan conversion output (FDX-SOV4TS) is installed, 101 = 4K@60 HDMI/DVI output (FDX-SOV4UH) is installed, 102 = 4K@60 HDBaseT output (FDX-SOV4UT) is installed, 104 = 4K@60 HDMI/DVI scan conversion output (FDX-SOV2UHS) is installed, 106 = 4K@60 HDMI/DVI scan conversion multiview output (FDX-SOV1UHM) is installed, 107 = 12G-SDI/6G-SDI/3G-SDI/HD-SDI output (FDX-SOV4US) is installed, 108 = 4K@60 SDVoE output (FDX-SOV4UC) is installed 109 = 4K@60 HDMI/DVI scan converter output (FDX-SOV4UHS) is installed</p> <p>If “board” is set to “2”: 0 = No board is installed., 1 = 4 I/Os analog audio (FDX-SAB4A) is installed, 2 = 12 outputs analog audio (FDX-SOA12A) is installed, 3 = 64 I/Os network audio (Dante) (FDX-SAB64D) is installed</p>
Getting example	Command	@GSS,0<CR><LF>
	Response	@GSS,0,101,101,101,101,0,0,0,0<CR><LF>
	Description	<p>Getting the input board status Input boards 5 to 8 of FDX-S32U : No board is installed. Other input boards : 4K@60 HDMI/DVI input board (FDX-SIV4UH) is installed.</p>
Remarks		—

@GFS		Fan status										
Getting	Command	@GFS<CR><LF>										
	Response	@GFS, rpm_1, s_1, rpm_2, s_2 (,rpm_3, s_3, ..., rpm_n, s_n)<CR><LF>										
Parameter		rpm_1-n: Rotation speed s_1-n: Status 0 = Normal, 1 = Abnormal										
Getting example	Command	@GFS<CR><LF>										
	Response	@GFS,3540,0,3540,0,3540,0<CR><LF>										
	Description	Getting the fan status Rotation speed of all fans : 3540 Status : Normal										
Remarks		The number of FANs (n) <table border="1"> <thead> <tr> <th>P/N</th> <th>n</th> </tr> </thead> <tbody> <tr> <td>FDX-S08U</td> <td>4</td> </tr> <tr> <td>FDX-S16U</td> <td>3</td> </tr> <tr> <td>FDX-S32U</td> <td>5</td> </tr> <tr> <td>FDX-S64U</td> <td>10</td> </tr> </tbody> </table>	P/N	n	FDX-S08U	4	FDX-S16U	3	FDX-S32U	5	FDX-S64U	10
P/N	n											
FDX-S08U	4											
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FDX-S64U	10											

@GPS		Power supply voltage status															
Getting	Command	@GPS<CR><LF>															
	Response	@GPS, status1 (,status2) (,status3) (,status4)<CR><LF>															
Parameter		status1-4: Status 0 = Normal, 1 = Abnormal <table border="1"> <thead> <tr> <th>Model</th> <th>Power</th> <th>With redundant power supply</th> </tr> </thead> <tbody> <tr> <td>FDX-S08U</td> <td rowspan="3">status1</td> <td>status1</td> </tr> <tr> <td>FDX-S16U</td> <td>status2</td> </tr> <tr> <td>FDX-S32U</td> <td></td> </tr> <tr> <td rowspan="2">FDX-S64U</td> <td>status1</td> <td>status1</td> </tr> <tr> <td>status2</td> <td>status2 status3 status4</td> </tr> </tbody> </table>	Model	Power	With redundant power supply	FDX-S08U	status1	status1	FDX-S16U	status2	FDX-S32U		FDX-S64U	status1	status1	status2	status2 status3 status4
Model	Power	With redundant power supply															
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FDX-S64U	status1	status1															
	status2	status2 status3 status4															
Getting example	Command	@GPS<CR><LF>															
	Response	@GPS,0<CR><LF>															
	Description	Getting the power supply voltage Normal															
Remarks		—															

@GIV		Version
Getting	Command	@GIV<CR><LF>
	Response	@GIV, id, version, input, output<CR><LF>
Parameter		id: Model number
		version: Firmware version
		input: The number of inputs 1 to n
		output: The number of outputs 1 to n
Getting example	Command	@GIV<CR><LF>
	Response	@GIV,FDX-S16U,01.00.01,12,12<CR><LF>
	Description	Getting the product information Firmware version : 01.00.01 The number of inputs : 12 The number of outputs : 12
Remarks		—

@GHB		HDBaseT information																
Getting	Command	@GHB, ch, mode<CR><LF>																
	Response	@GHB, ch, mode, status_1 (, status_2, status_3, ...)<CR><LF>																
Parameter		<p>ch: I/O channels</p> <p>1 to n = OUT1 to OUTn</p> <p>101 to 100+n = IN1 to INn</p>																
		<p>mode: Target information</p> <table border="0"> <tr> <td>0 = All statuses,</td> <td>1 = Video signal information,</td> </tr> <tr> <td>2 = Link status,</td> <td>3 = Connection between source and sink devices,</td> </tr> <tr> <td>4 = Device type,</td> <td>5 = Version ID,</td> </tr> <tr> <td>6 =Operation mode,</td> <td>7 = Connected device type,</td> </tr> <tr> <td>8 = Connected version ID,</td> <td>9 = Operation mode of remote device,</td> </tr> <tr> <td>10 = Category cable length,</td> <td>11 = Bit error rate,</td> </tr> <tr> <td>12 = Video signal quality,</td> <td>13 = Maximum video signal quality,</td> </tr> <tr> <td>14 = Video signal residual gap,</td> <td>15 = Maximum video signal residual gap</td> </tr> </table>	0 = All statuses,	1 = Video signal information,	2 = Link status,	3 = Connection between source and sink devices,	4 = Device type,	5 = Version ID,	6 =Operation mode,	7 = Connected device type,	8 = Connected version ID,	9 = Operation mode of remote device,	10 = Category cable length,	11 = Bit error rate,	12 = Video signal quality,	13 = Maximum video signal quality,	14 = Video signal residual gap,	15 = Maximum video signal residual gap
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@GHB	HDBaseT information (Cont'd)														
Parameter	status_5: Version ID <table border="1" data-bbox="480 309 1442 472"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>13 07 21 10</td> <td>13.07.21.10</td> </tr> <tr> <td>UNKNOWN</td> <td>Unknown</td> </tr> <tr> <td>UNCONNECTED</td> <td>Not a HDBaseT connector</td> </tr> </tbody> </table>	Value	Description	13 07 21 10	13.07.21.10	UNKNOWN	Unknown	UNCONNECTED	Not a HDBaseT connector						
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@GHB	HDBaseT information (Cont'd)												
Parameter	status_10: Category cable length												
	<table border="1"> <thead> <tr> <th data-bbox="470 309 785 353">Value</th> <th data-bbox="790 309 1450 353">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="470 353 785 398">85m</td> <td data-bbox="790 353 1450 398">Category cable length</td> </tr> <tr> <td data-bbox="470 398 785 443"><20m</td> <td data-bbox="790 398 1450 443">66 ft. (20 m) or shorter</td> </tr> <tr> <td data-bbox="470 443 785 488">100m<</td> <td data-bbox="790 443 1450 488">328 ft. (100 m) or longer</td> </tr> <tr> <td data-bbox="470 488 785 533">UNKNOWN</td> <td data-bbox="790 488 1450 533">Unknown</td> </tr> <tr> <td data-bbox="470 533 785 595">UNCONNECTED</td> <td data-bbox="790 533 1450 595">Remote device is not connected or the connector is not a HDBaseT connector</td> </tr> </tbody> </table>	Value	Description	85m	Category cable length	<20m	66 ft. (20 m) or shorter	100m<	328 ft. (100 m) or longer	UNKNOWN	Unknown	UNCONNECTED	Remote device is not connected or the connector is not a HDBaseT connector
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status_12: Video signal quality													
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@GHB		HDBaseT status (Cont'd)																																															
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	Description	Getting all HDBaseT information of Output 1 <table border="1"> <thead> <tr> <th>Parameter</th> <th>Item</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>status_1</td> <td>Video signal information</td> <td>1920x1080p 59.94Hz YCbCr 4:4:4 24 BIT COLOR</td> </tr> <tr> <td>status_2</td> <td>Link status</td> <td>Connected</td> </tr> <tr> <td>status_3</td> <td>Connected sink device</td> <td>Connected</td> </tr> <tr> <td>status_4</td> <td>OUT1 device type</td> <td>VS100TX</td> </tr> <tr> <td>status_5</td> <td>OUT1 version ID</td> <td>13.07.21.00</td> </tr> <tr> <td>status_6</td> <td>OUT1 operation mode</td> <td>HDBaseT mode</td> </tr> <tr> <td>status_7</td> <td>Connected device type</td> <td>VS100RX</td> </tr> <tr> <td>status_8</td> <td>Connected version ID</td> <td>13.07.21.00</td> </tr> <tr> <td>status_9</td> <td>Operation mode of remote device</td> <td>HDBaseT mode</td> </tr> <tr> <td>status_10</td> <td>Category cable length</td> <td>279 ft. (85 m)</td> </tr> <tr> <td>status_11</td> <td>Bit error rate</td> <td>10e-11</td> </tr> <tr> <td>status_12</td> <td>Video signal quality</td> <td>A : -22dB B : -20dB C : -21dB D : -22dB</td> </tr> <tr> <td>status_13</td> <td>Maximum video signal quality</td> <td>A : -22dB B : -20dB C : -21dB D : -22dB</td> </tr> <tr> <td>status_14</td> <td>Video signal residual gap</td> <td>A : 0.34 B : 0.35 C : 0.32 D : 0.33</td> </tr> <tr> <td>status_15</td> <td>Maximum video signal residual gap</td> <td>A : 0.34 B : 0.35 C : 0.32 D : 0.33</td> </tr> </tbody> </table>	Parameter	Item	Description	status_1	Video signal information	1920x1080p 59.94Hz YCbCr 4:4:4 24 BIT COLOR	status_2	Link status	Connected	status_3	Connected sink device	Connected	status_4	OUT1 device type	VS100TX	status_5	OUT1 version ID	13.07.21.00	status_6	OUT1 operation mode	HDBaseT mode	status_7	Connected device type	VS100RX	status_8	Connected version ID	13.07.21.00	status_9	Operation mode of remote device	HDBaseT mode	status_10	Category cable length	279 ft. (85 m)	status_11	Bit error rate	10e-11	status_12	Video signal quality	A : -22dB B : -20dB C : -21dB D : -22dB	status_13	Maximum video signal quality	A : -22dB B : -20dB C : -21dB D : -22dB	status_14	Video signal residual gap	A : 0.34 B : 0.35 C : 0.32 D : 0.33	status_15	Maximum video signal residual gap
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Remarks		—																																															

3.4.19 Status notification

@GDA / @SDA		Unsolicited notification IP address/UDP port number of destination
Getting	Command	@GDA, reserve<CR><LF>
	Response	@GDA, reserve, unit_1, unit_2, unit_3, unit_4, port<CR><LF>
Setting	Command	@SDA, reserve, unit_1, unit_2, unit_3, unit_4, port<CR><LF>
	Response	@SDA, reserve, unit_1, unit_2, unit_3, unit_4, port<CR><LF>
Parameter		reserve 1 (Fixed)
		unit_1 to unit_4 = Upper bit of the IP address to Lower bit of the IP address 0 to 255 = 8 bit (in decimal) Default: 192.168.1.200
		port : UDP port number 1 to 65535 Default: 1147
Getting example	Command	@GDA<CR><LF>
	Response	@GDA,1,192,168,1,200,1147<CR><LF>
	Description	Getting the IP address/UDP port number of the destination IP address: 192.168.1.200 UDP port number: 1147
Setting example	Command	@SDA,1,192,168,1,201,1148<CR><LF>
	Response	@SDA,1,192,168,1,201,1148<CR><LF>
	Description	Setting the IP address and UDP port of the destination to 192.168.1.201 and , 1148, respectively. Completed
Remarks		If " @GUH / @SUH Unsolicited notification interval using UDP " is set to a value other than "OFF", this command cannot be sent.

@GUH / @SUH		Unsolicited notification interval using UDP																																																																																				
Getting	Command	@GUH<CR><LF>																																																																																				
	Response	@GUH, time, save<CR><LF>																																																																																				
Setting	Command	@SUH, time(, save)<CR><LF>																																																																																				
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Parameter		<p>time : Notification interval 0 = OFF [Default], 1 to 50 = 100 ms. to 5000 ms.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>time</th> <th>ON/OFF</th> <th>Interval</th> <th></th> <th>time</th> <th>ON/OFF</th> <th>Interval</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>OFF</td> <td>—</td> <td></td> <td>40</td> <td>ON</td> <td>4000 ms</td> </tr> <tr> <td>1</td> <td>ON</td> <td>100 ms</td> <td></td> <td>41</td> <td>ON</td> <td>4100 ms</td> </tr> <tr> <td>2</td> <td>ON</td> <td>200 ms</td> <td></td> <td>42</td> <td>ON</td> <td>4200 ms</td> </tr> <tr> <td>3</td> <td>ON</td> <td>300 ms</td> <td></td> <td>43</td> <td>ON</td> <td>4300 ms</td> </tr> <tr> <td>4</td> <td>ON</td> <td>400 ms</td> <td></td> <td>44</td> <td>ON</td> <td>4400 ms</td> </tr> <tr> <td>5</td> <td>ON</td> <td>500 ms</td> <td style="text-align: center;">~</td> <td>45</td> <td>ON</td> <td>4500 ms</td> </tr> <tr> <td>6</td> <td>ON</td> <td>600 ms</td> <td></td> <td>46</td> <td>ON</td> <td>4600 ms</td> </tr> <tr> <td>7</td> <td>ON</td> <td>700 ms</td> <td></td> <td>47</td> <td>ON</td> <td>4700 ms</td> </tr> <tr> <td>8</td> <td>ON</td> <td>800 ms</td> <td></td> <td>48</td> <td>ON</td> <td>4800 ms</td> </tr> <tr> <td>9</td> <td>ON</td> <td>900 ms</td> <td></td> <td>49</td> <td>ON</td> <td>4900 ms</td> </tr> <tr> <td>10</td> <td>ON</td> <td>1000 ms</td> <td></td> <td>50</td> <td>ON</td> <td>5000 ms</td> </tr> </tbody> </table> <p>save 0 = Not save (Will be OFF next start-up) [Default] 1 = Saves If you skip this parameter ("save"), the setting is not saved.</p>	time	ON/OFF	Interval		time	ON/OFF	Interval	0	OFF	—		40	ON	4000 ms	1	ON	100 ms		41	ON	4100 ms	2	ON	200 ms		42	ON	4200 ms	3	ON	300 ms		43	ON	4300 ms	4	ON	400 ms		44	ON	4400 ms	5	ON	500 ms	~	45	ON	4500 ms	6	ON	600 ms		46	ON	4600 ms	7	ON	700 ms		47	ON	4700 ms	8	ON	800 ms		48	ON	4800 ms	9	ON	900 ms		49	ON	4900 ms	10	ON	1000 ms		50	ON	5000 ms
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@GPH / @SPH		Unsolicited notification interval using TCP/RS-232C																																																																								
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@PSH		Unsolicited status notification (Cont'd)																																																						
Parameter		<table border="1"> <tr><td>bit</td><td>47</td><td>46</td><td>45</td><td>44</td><td>43</td><td>42</td><td>41</td><td>40</td></tr> <tr><td>out</td><td>OUT48</td><td>OUT47</td><td>OUT46</td><td>OUT45</td><td>OUT44</td><td>OUT43</td><td>OUT42</td><td>OUT41</td></tr> </table> <table border="1"> <tr><td>bit</td><td>55</td><td>54</td><td>53</td><td>52</td><td>51</td><td>50</td><td>49</td><td>48</td></tr> <tr><td>out</td><td>OUT56</td><td>OUT55</td><td>OUT54</td><td>OUT53</td><td>OUT52</td><td>OUT51</td><td>OUT50</td><td>OUT49</td></tr> </table> <table border="1"> <tr><td>bit</td><td>63</td><td>62</td><td>61</td><td>60</td><td>59</td><td>58</td><td>57</td><td>56</td></tr> <tr><td>out</td><td>OUT64</td><td>OUT63</td><td>OUT62</td><td>OUT61</td><td>OUT60</td><td>OUT59</td><td>OUT58</td><td>OUT57</td></tr> </table> <p>“1” appears for detected channel, the value is displayed in hex. Changes in OUT1 ⇒ 1 Changes in OUT16 and OUT2 ⇒ 8002 Changes in OUT17 to OUT24 ⇒ FF0000</p> <p>system: Checking if system status changes 0 = Not change, 1 = Changes</p>	bit	47	46	45	44	43	42	41	40	out	OUT48	OUT47	OUT46	OUT45	OUT44	OUT43	OUT42	OUT41	bit	55	54	53	52	51	50	49	48	out	OUT56	OUT55	OUT54	OUT53	OUT52	OUT51	OUT50	OUT49	bit	63	62	61	60	59	58	57	56	out	OUT64	OUT63	OUT62	OUT61	OUT60	OUT59	OUT58	OUT57
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Getting example	Response	@PSH,1,0,0<CR><LF>																																																						
	Description	Getting status change information - Input status : Changes in IN1 - Output status : No changes - System status : No changes																																																						
Remarks		Only if “@GPH / @SPH Unsolicited notification interval” is set, will the FDX-S send unsolicited commands.																																																						

@AIN		Input signal status (For each channel)				
Getting	Command	@AIN, in<CR><LF>				
	Response	@AIN, status_1, status_2, status_3, status_4, status_5, status_6, status_7, status_8, status_9, status_10, status_11, status_12, status_13, status_14, status_15, status_16, status_17, status_18, status_19<CR><LF>				
Parameter		in: Input channel 1 to n = IN1 to INn				
		status_1: Input channel				
		<table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1 to n = IN1 to INn</td> </tr> </tbody> </table>	Value	Description	1	1 to n = IN1 to INn
		Value	Description			
		1	1 to n = IN1 to INn			
		status_2: Model number				
		<table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>FDX-S16U</td> <td>Model number</td> </tr> </tbody> </table>	Value	Description	FDX-S16U	Model number
		Value	Description			
		FDX-S16U	Model number			
		status_3: Version				
<table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>01.00.00</td> <td>Version</td> </tr> </tbody> </table>	Value	Description	01.00.00	Version		
Value	Description					
01.00.00	Version					
status_4: The number of valid data						
<table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>15</td> <td>"15" (fixed)</td> </tr> </tbody> </table>	Value	Description	15	"15" (fixed)		
Value	Description					
15	"15" (fixed)					
status_5: Input board						
<table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>No board is installed.</td> </tr> <tr> <td>1</td> <td>Board is installed.</td> </tr> </tbody> </table> <p>No information will be displayed from status_6 and onward.</p>	Value	Description	0	No board is installed.	1	Board is installed.
Value	Description					
0	No board is installed.					
1	Board is installed.					
status_6: Horizontal pixels of input video						
<table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>No signal is input.</td> </tr> <tr> <td>1920</td> <td>1920 pixels</td> </tr> </tbody> </table>	Value	Description	0	No signal is input.	1920	1920 pixels
Value	Description					
0	No signal is input.					
1920	1920 pixels					
status_7: Vertical pixels of input video						
<table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>No signal is input.</td> </tr> <tr> <td>1080</td> <td>1080 lines</td> </tr> </tbody> </table>	Value	Description	0	No signal is input.	1080	1080 lines
Value	Description					
0	No signal is input.					
1080	1080 lines					

@AIN	Input signal status (For each channel) (Cont'd)						
Parameter	status_8: Vertical sync frequency of input video <table border="1" data-bbox="483 309 1358 434"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>No signal is input.</td> </tr> <tr> <td>59.94</td> <td>59.94 Hz</td> </tr> </tbody> </table>	Value	Description	0	No signal is input.	59.94	59.94 Hz
	Value	Description					
	0	No signal is input.					
	59.94	59.94 Hz					
	status_9: Progressive or interlace scan <table border="1" data-bbox="483 553 1358 712"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0: No signal is input. 1: Progressive 2: Interlace</td> </tr> </tbody> </table>	Value	Description	1	0: No signal is input. 1: Progressive 2: Interlace		
	Value	Description					
	1	0: No signal is input. 1: Progressive 2: Interlace					
	status_10: HDMI/DVI mode of input video <table border="1" data-bbox="483 831 1358 1030"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>0: No signal is input. 1: DVI signal input 2: HDMI signal input 3: SDI signal input</td> </tr> </tbody> </table>	Value	Description	2	0: No signal is input. 1: DVI signal input 2: HDMI signal input 3: SDI signal input		
	Value	Description					
	2	0: No signal is input. 1: DVI signal input 2: HDMI signal input 3: SDI signal input					
	status_11: Color space of input video <table border="1" data-bbox="483 1149 1358 1424"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0: No signal is input. 1: RGB input 2: YCbCr 4:2:2 input 3: YCbCr 4:4:4 input 4: YCbCr 4:2:0 input 255: Unknown</td> </tr> </tbody> </table>	Value	Description	1	0: No signal is input. 1: RGB input 2: YCbCr 4:2:2 input 3: YCbCr 4:4:4 input 4: YCbCr 4:2:0 input 255: Unknown		
	Value	Description					
	1	0: No signal is input. 1: RGB input 2: YCbCr 4:2:2 input 3: YCbCr 4:4:4 input 4: YCbCr 4:2:0 input 255: Unknown					
status_12: Color range of input video <table border="1" data-bbox="483 1543 1358 1702"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>0: No signal is input. 1: Limited range input 2: Full range input</td> </tr> </tbody> </table>	Value	Description	2	0: No signal is input. 1: Limited range input 2: Full range input			
Value	Description						
2	0: No signal is input. 1: Limited range input 2: Full range input						
status_13: Color depth of input video <table border="1" data-bbox="483 1821 1358 2020"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0: No signal is input. 1: 24 bit/pixel (8 bit/component) 2: 30 bit/pixel (10 bit/component) 3: 36 bit/pixel (12 bit/component)</td> </tr> </tbody> </table>	Value	Description	1	0: No signal is input. 1: 24 bit/pixel (8 bit/component) 2: 30 bit/pixel (10 bit/component) 3: 36 bit/pixel (12 bit/component)			
Value	Description						
1	0: No signal is input. 1: 24 bit/pixel (8 bit/component) 2: 30 bit/pixel (10 bit/component) 3: 36 bit/pixel (12 bit/component)						

@AIN	Input signal status (For each channel) (Cont'd)				
Parameter	status_14: +5 V input status				
	<table border="1"> <thead> <tr> <th data-bbox="483 320 882 353">Value</th> <th data-bbox="890 320 1358 353">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="483 353 882 432">1</td> <td data-bbox="890 353 1358 432">0: No +5 V signal is input. 1: +5 V signal is input.</td> </tr> </tbody> </table>	Value	Description	1	0: No +5 V signal is input. 1: +5 V signal is input.
	Value	Description			
	1	0: No +5 V signal is input. 1: +5 V signal is input.			
	status_15: Presence of input video HDCP encryption (Encryption from source device)				
	<table border="1"> <thead> <tr> <th data-bbox="483 589 882 622">Value</th> <th data-bbox="890 589 1358 622">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="483 622 882 835">2</td> <td data-bbox="890 622 1358 835">0: No signal is input. 1: Without HDCP 2: HDCP 1.4 3: HDCP 2.2 Type 0 4: HDCP 2.2 Type 1</td> </tr> </tbody> </table>	Value	Description	2	0: No signal is input. 1: Without HDCP 2: HDCP 1.4 3: HDCP 2.2 Type 0 4: HDCP 2.2 Type 1
Value	Description				
2	0: No signal is input. 1: Without HDCP 2: HDCP 1.4 3: HDCP 2.2 Type 0 4: HDCP 2.2 Type 1				
status_16: Audio input type					
<table border="1"> <thead> <tr> <th data-bbox="483 947 882 981">Value</th> <th data-bbox="890 947 1358 981">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="483 981 882 1104">1</td> <td data-bbox="890 981 1358 1104">0: No signal is input. 1: LPCM 2: Compressed audio</td> </tr> </tbody> </table>	Value	Description	1	0: No signal is input. 1: LPCM 2: Compressed audio	
Value	Description				
1	0: No signal is input. 1: LPCM 2: Compressed audio				
status_17: Audio input sampling frequency					
<table border="1"> <thead> <tr> <th data-bbox="483 1227 882 1261">Value</th> <th data-bbox="890 1227 1358 1261">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="483 1261 882 1541">5</td> <td data-bbox="890 1261 1358 1541">0: No signal is input. 1: 22.05 kHz 2: 24.0 kHz 3: 32 kHz 4: 44.1 kHz 5: 48 kHz 6: 88.2 kHz 7: 96 kHz 8: 176 kHz 9: 192 kHz 10: 768.0 kHz 255: Unknown</td> </tr> </tbody> </table>	Value	Description	5	0: No signal is input. 1: 22.05 kHz 2: 24.0 kHz 3: 32 kHz 4: 44.1 kHz 5: 48 kHz 6: 88.2 kHz 7: 96 kHz 8: 176 kHz 9: 192 kHz 10: 768.0 kHz 255: Unknown	
Value	Description				
5	0: No signal is input. 1: 22.05 kHz 2: 24.0 kHz 3: 32 kHz 4: 44.1 kHz 5: 48 kHz 6: 88.2 kHz 7: 96 kHz 8: 176 kHz 9: 192 kHz 10: 768.0 kHz 255: Unknown				
status_18: Audio input bit length					
<table border="1"> <thead> <tr> <th data-bbox="483 1664 882 1697">Value</th> <th data-bbox="890 1664 1358 1697">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="483 1697 882 1977">9</td> <td data-bbox="890 1697 1358 1977">0: No signal is input. 1: 16 bit 2: 17 bit 3: 18 bit 4: 19 bit 5: 20 bit 6: 21 bit 7: 22 bit 8: 23 bit 9: 24 bit 255: Unknown</td> </tr> </tbody> </table>	Value	Description	9	0: No signal is input. 1: 16 bit 2: 17 bit 3: 18 bit 4: 19 bit 5: 20 bit 6: 21 bit 7: 22 bit 8: 23 bit 9: 24 bit 255: Unknown	
Value	Description				
9	0: No signal is input. 1: 16 bit 2: 17 bit 3: 18 bit 4: 19 bit 5: 20 bit 6: 21 bit 7: 22 bit 8: 23 bit 9: 24 bit 255: Unknown				

@AIN		Input signal status (For each channel) (Cont'd)				
Parameter		status_19: Audio input HBR mode <table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td> 0: No signal is input. 1: Mode other than HBR (PCM mode, other compressed audio) 2: HBR mode </td> </tr> </tbody> </table>	Value	Description	1	0: No signal is input. 1: Mode other than HBR (PCM mode, other compressed audio) 2: HBR mode
Value	Description					
1	0: No signal is input. 1: Mode other than HBR (PCM mode, other compressed audio) 2: HBR mode					
Getting example	Command	@AIN,1<CR><LF>				
	Response	@AIN,1,FDX-S16U,01.00.00,15,1,1920,1080,59.94,1,2,1,2,1,1,2,1,5,9,1<CR><LF>				
	Description	Getting all statuses of IN1 input signal - Input channel : IN1 - Model number : FDX-S16U - Version : 01.00.00 - The number of valid data : 15 - Input board : Installed - Horizontal pixels of input video : 1920 pixels - Vertical pixels of input video : 1080 lines - Input video frequency : 59.94 Hz - Progressive or interlace scan : Progressive - HDMI/DVI mode of input video : HDMI signal input - Color space of input video : RGB input - Color range of input video : Full range input - Color depth of input video : 24 bit/pixel (8 bit/component) - +5V input status : +5 V signal is input. - Presence of input video HDCP encryption : HDCP 1.4 - Audio input type : LPCM - Audio input sampling frequency : 48 kHz - Audio input bit length : 24 bit - Audio input HBR mode : Mode other than HBR				
Remarks		—				

@AOT		Output signal status (For each channel)				
Getting	Command	@AOT,out<CR><LF>				
	Response	@AOT, status_1, status_2, status_3, status_4, status_5, status_6, status_7, status_8, status_9, status_10, status_11, status_12, status_13, status_14, status_15, status_16, status_17, status_18, status_19, status_20, status_21, status_22, status_23, status_24, status_25<CR><LF>				
Parameter		out: Output channel 1 to n = OUT1 to OUTn				
		status_1: Output channel				
		<table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1 to n = OUT1 to OUTn</td> </tr> </tbody> </table>	Value	Description	1	1 to n = OUT1 to OUTn
		Value	Description			
		1	1 to n = OUT1 to OUTn			
		status_2: Model number				
		<table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>FDX-S16U</td> <td>Model number</td> </tr> </tbody> </table>	Value	Description	FDX-S16U	Model number
		Value	Description			
FDX-S16U	Model number					
status_3: Version						
<table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>01.00.00</td> <td>Version</td> </tr> </tbody> </table>	Value	Description	01.00.00	Version		
Value	Description					
01.00.00	Version					
status_4: The number of valid data						
<table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>21</td> <td>"21" (fixed)</td> </tr> </tbody> </table>	Value	Description	21	"21" (fixed)		
Value	Description					
21	"21" (fixed)					
Parameter		status_5: Output board				
		<table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>No board is installed.</td> </tr> <tr> <td>1</td> <td>Board is installed.</td> </tr> </tbody> </table> <p>If no board is installed, no information of status_6 and later.</p>	Value	Description	0	No board is installed.
Value	Description					
0	No board is installed.					
1	Board is installed.					
Parameter		status_6: Selected input				
		<table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0 = OFF 1 to n = IN1 to INn</td> </tr> </tbody> </table>	Value	Description	1	0 = OFF 1 to n = IN1 to INn
Value	Description					
1	0 = OFF 1 to n = IN1 to INn					

@AOT	Output signal status (For each channel) (Cont'd)						
Parameter	status_7: Horizontal pixels of output video						
	<table border="1"> <thead> <tr> <th data-bbox="483 320 882 353">Value</th> <th data-bbox="890 320 1358 353">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="483 356 882 389">0</td> <td data-bbox="890 356 1358 389">No signal is output.</td> </tr> <tr> <td data-bbox="483 392 882 434">1920</td> <td data-bbox="890 392 1358 434">1920 pixels</td> </tr> </tbody> </table>	Value	Description	0	No signal is output.	1920	1920 pixels
	Value	Description					
	0	No signal is output.					
	1920	1920 pixels					
	status_8: Vertical pixels of output video						
	<table border="1"> <thead> <tr> <th data-bbox="483 557 882 591">Value</th> <th data-bbox="890 557 1358 591">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="483 593 882 627">0</td> <td data-bbox="890 593 1358 627">No signal is output.</td> </tr> <tr> <td data-bbox="483 629 882 672">1080</td> <td data-bbox="890 629 1358 672">1080 lines</td> </tr> </tbody> </table>	Value	Description	0	No signal is output.	1080	1080 lines
	Value	Description					
	0	No signal is output.					
	1080	1080 lines					
	status_9: Vertical sync frequency output video						
	<table border="1"> <thead> <tr> <th data-bbox="483 795 882 828">Value</th> <th data-bbox="890 795 1358 828">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="483 831 882 864">0</td> <td data-bbox="890 831 1358 864">No signal is output.</td> </tr> <tr> <td data-bbox="483 866 882 909">59.94</td> <td data-bbox="890 866 1358 909">59.94 Hz</td> </tr> </tbody> </table>	Value	Description	0	No signal is output.	59.94	59.94 Hz
Value	Description						
0	No signal is output.						
59.94	59.94 Hz						
status_10: Progressive or interlace scan							
<table border="1"> <thead> <tr> <th data-bbox="483 1032 882 1066">Value</th> <th data-bbox="890 1032 1358 1066">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="483 1068 882 1191">1</td> <td data-bbox="890 1068 1358 1191">0: No signal is output. 1: Progressive 2: Interlace</td> </tr> </tbody> </table>	Value	Description	1	0: No signal is output. 1: Progressive 2: Interlace			
Value	Description						
1	0: No signal is output. 1: Progressive 2: Interlace						
status_11: HDMI/DVI mode of output video							
<table border="1"> <thead> <tr> <th data-bbox="483 1314 882 1348">Value</th> <th data-bbox="890 1314 1358 1348">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="483 1350 882 1507">2</td> <td data-bbox="890 1350 1358 1507">0: No signal is output. 1: DVI signal output 2: HDMI signal output 3: SDI signal output</td> </tr> </tbody> </table>	Value	Description	2	0: No signal is output. 1: DVI signal output 2: HDMI signal output 3: SDI signal output			
Value	Description						
2	0: No signal is output. 1: DVI signal output 2: HDMI signal output 3: SDI signal output						
status_12: Color space of output video							
<table border="1"> <thead> <tr> <th data-bbox="483 1630 882 1664">Value</th> <th data-bbox="890 1630 1358 1664">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="483 1666 882 1865">1</td> <td data-bbox="890 1666 1358 1865">0: No signal is output. 1: RGB output 2: YCbCr 4:2:2 output 3: YCbCr 4:4:4 output 4: YCbCr 4:2:0 output</td> </tr> </tbody> </table>	Value	Description	1	0: No signal is output. 1: RGB output 2: YCbCr 4:2:2 output 3: YCbCr 4:4:4 output 4: YCbCr 4:2:0 output			
Value	Description						
1	0: No signal is output. 1: RGB output 2: YCbCr 4:2:2 output 3: YCbCr 4:4:4 output 4: YCbCr 4:2:0 output						

@AOT	Output signal status (For each channel) (Cont'd)				
Parameter	status_13: Color range of output video <table border="1" data-bbox="483 309 1358 472"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>0: No signal is output. 1: Limited range output 2: Full range output</td> </tr> </tbody> </table>	Value	Description	2	0: No signal is output. 1: Limited range output 2: Full range output
	Value	Description			
	2	0: No signal is output. 1: Limited range output 2: Full range output			
	status_14: Color depth of output video <table border="1" data-bbox="483 589 1358 790"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0: No signal is output. 1: 24 bit/pixel (8 bit/component) 2: 30 bit/pixel (10 bit/component) 3: 36 bit/pixel (12 bit/component)</td> </tr> </tbody> </table>	Value	Description	1	0: No signal is output. 1: 24 bit/pixel (8 bit/component) 2: 30 bit/pixel (10 bit/component) 3: 36 bit/pixel (12 bit/component)
	Value	Description			
1	0: No signal is output. 1: 24 bit/pixel (8 bit/component) 2: 30 bit/pixel (10 bit/component) 3: 36 bit/pixel (12 bit/component)				
status_15: Hot plug detection <table border="1" data-bbox="483 904 1358 1032"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0: Hot plug is detected. 1: No hot plug is detected.</td> </tr> </tbody> </table>	Value	Description	1	0: Hot plug is detected. 1: No hot plug is detected.	
Value	Description				
1	0: Hot plug is detected. 1: No hot plug is detected.				
status_16: HDCP encryption <table border="1" data-bbox="483 1149 1358 1424"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>0: No HDCP encryption 1: HDCP is being encrypted. 2: HDCP is being encrypted. 3: HDCP is being encrypted. 4: HDCP encryption ends normally. 5: HDCP encryption ends abnormally.</td> </tr> </tbody> </table>	Value	Description	4	0: No HDCP encryption 1: HDCP is being encrypted. 2: HDCP is being encrypted. 3: HDCP is being encrypted. 4: HDCP encryption ends normally. 5: HDCP encryption ends abnormally.	
Value	Description				
4	0: No HDCP encryption 1: HDCP is being encrypted. 2: HDCP is being encrypted. 3: HDCP is being encrypted. 4: HDCP encryption ends normally. 5: HDCP encryption ends abnormally.				
status_17: HDCP output <table border="1" data-bbox="483 1541 1358 1742"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0: No HDCP output 1: HDCP 1.4 output 2: HDCP 2.2 Type 0 output 3: HDCP 2.2 Type 1 output</td> </tr> </tbody> </table>	Value	Description	1	0: No HDCP output 1: HDCP 1.4 output 2: HDCP 2.2 Type 0 output 3: HDCP 2.2 Type 1 output	
Value	Description				
1	0: No HDCP output 1: HDCP 1.4 output 2: HDCP 2.2 Type 0 output 3: HDCP 2.2 Type 1 output				

@AOT	Output signal status (For each channel) (Cont'd)																	
Parameter	status_18: Audio output type <table border="1" data-bbox="483 309 1358 472"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0: No signal is output. 1: LPCM 2: Compressed audio</td> </tr> </tbody> </table>	Value	Description	1	0: No signal is output. 1: LPCM 2: Compressed audio													
	Value	Description																
	1	0: No signal is output. 1: LPCM 2: Compressed audio																
	status_19: Reading EDID <table border="1" data-bbox="483 589 1358 790"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>0: Not connected (EDID is not received) 1: Failed 2: Completed</td> </tr> </tbody> </table>	Value	Description	2	0: Not connected (EDID is not received) 1: Failed 2: Completed													
	Value	Description																
2	0: Not connected (EDID is not received) 1: Failed 2: Completed																	
status_20: HDMI/DVI mode (sink) <table border="1" data-bbox="483 907 1358 1182"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>0: Not connected (EDID is not received) 1: DVI mode 2: HDMI mode (LPCM supported) 3: HDMI mode (Compressed audio supported)</td> </tr> </tbody> </table>	Value	Description	2	0: Not connected (EDID is not received) 1: DVI mode 2: HDMI mode (LPCM supported) 3: HDMI mode (Compressed audio supported)														
Value	Description																	
2	0: Not connected (EDID is not received) 1: DVI mode 2: HDMI mode (LPCM supported) 3: HDMI mode (Compressed audio supported)																	
status_21: Color space (sink) <table border="1" data-bbox="483 1303 1441 1422"> <thead> <tr> <th>bit</th> <th>7</th> <th>6</th> <th>5</th> <th>4</th> <th>3</th> <th>2</th> <th>1</th> <th>0</th> </tr> </thead> <tbody> <tr> <td>Color</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>YCbCr 4:2:0</td> <td>YCbCr 4:4:4</td> <td>YCbCr 4:2:2</td> <td>RGB</td> </tr> </tbody> </table> <p data-bbox="483 1429 1305 1462">"1" appears for supported color space, the value is displayed in hex.</p> <p data-bbox="483 1467 997 1500">"0": Not connected. (EDID is not received)</p>	bit	7	6	5	4	3	2	1	0	Color	-	-	-	-	YCbCr 4:2:0	YCbCr 4:4:4	YCbCr 4:2:2	RGB
bit	7	6	5	4	3	2	1	0										
Color	-	-	-	-	YCbCr 4:2:0	YCbCr 4:4:4	YCbCr 4:2:2	RGB										
status_22: Color depth (sink) <table border="1" data-bbox="483 1619 1358 1859"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0: Not connected (EDID is not received) 1: 24 bit/pixel (8 bit/component) 2: 30 bit/pixel (10 bit/component) 3: 36 bit/pixel (12 bit/component)</td> </tr> </tbody> </table>	Value	Description	1	0: Not connected (EDID is not received) 1: 24 bit/pixel (8 bit/component) 2: 30 bit/pixel (10 bit/component) 3: 36 bit/pixel (12 bit/component)														
Value	Description																	
1	0: Not connected (EDID is not received) 1: 24 bit/pixel (8 bit/component) 2: 30 bit/pixel (10 bit/component) 3: 36 bit/pixel (12 bit/component)																	

@AOT	Output signal status (For each channel) (Cont'd)				
Parameter	status_23: HDCP (sink) <table border="1" data-bbox="483 309 1358 551"> <thead> <tr> <th data-bbox="489 315 882 353">Value</th> <th data-bbox="888 315 1351 353">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="489 362 882 542">2</td> <td data-bbox="888 362 1351 542"> 0: Not connected (EDID is not received) 1: HDCP is not supported. 2: HDCP 1.4 supported 3: HDCP 2.2 supported </td> </tr> </tbody> </table>	Value	Description	2	0: Not connected (EDID is not received) 1: HDCP is not supported. 2: HDCP 1.4 supported 3: HDCP 2.2 supported
	Value	Description			
	2	0: Not connected (EDID is not received) 1: HDCP is not supported. 2: HDCP 1.4 supported 3: HDCP 2.2 supported			
	status_24: SCDC (sink) <table border="1" data-bbox="483 667 1358 864"> <thead> <tr> <th data-bbox="489 674 882 712">Value</th> <th data-bbox="888 674 1351 712">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="489 721 882 855">2</td> <td data-bbox="888 721 1351 855"> 0: Not connected (EDID is not received) 1: SCDC is not supported. 2: SCDC supported </td> </tr> </tbody> </table>	Value	Description	2	0: Not connected (EDID is not received) 1: SCDC is not supported. 2: SCDC supported
	Value	Description			
	2	0: Not connected (EDID is not received) 1: SCDC is not supported. 2: SCDC supported			
	status_25: HDR (sink) <table border="1" data-bbox="483 985 1358 1182"> <thead> <tr> <th data-bbox="489 992 882 1030">Value</th> <th data-bbox="888 992 1351 1030">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="489 1039 882 1173">2</td> <td data-bbox="888 1039 1351 1173"> 0: Not connected (EDID is not received) 1: HDR is not supported. 2: HDR supported </td> </tr> </tbody> </table>	Value	Description	2	0: Not connected (EDID is not received) 1: HDR is not supported. 2: HDR supported
	Value	Description			
	2	0: Not connected (EDID is not received) 1: HDR is not supported. 2: HDR supported			

@AOT		Output signal status (For each channel) (Cont'd)
Getting example	Command	@AOT,1<CR><LF>
	Response	@AOT,1,FDX-S16U,01.00.00,21,1,1,1,1920,1080,59.94,1,2,1,2,1,1,4,1,1,2,2,7,1,2,2,2<CR><LF>
	Description	<p>Getting all statuses of OUT1 output signal</p> <ul style="list-style-type: none"> - Output channel : OUT1 - Model number : FDX-S16U - Version : 01.00.00 - The number of valid data : 21 - Output board : Installed - Selected input : IN1 - Horizontal pixels of output video : 1920 pixels - Vertical pixels of output video : 1080 lines - Output video frequency : 59.94 Hz - Progressive or interlace scan : Progressive - HDMI/DVI mode of output video : HDMI signal output - Color space of output video : RGB output - Color range of output video : Full range output - Color depth of output video : 24 bit/pixel (8 bit/component) - Hot plug detection : Hot plug is detected. - HDCP encryption : Encryption ends normally. - HDCP output : HDCP 1.4 output - Audio output type : LPCM - Reading EDID : Completed - HDMI/DVI mode (sink) : HDMI mode (LPCM supported) - Color space (sink) : RGB, YCbCr 4:2:2, and YCbCr 4:4:4 supported - Color depth (sink) : 24 bit/pixel (8 bit/component) - HDCP (sink) : HDCP 1.4 supported - SCDC (sink) : SCDC supported - HDR (sink) : HDR supported
Remarks		—

@GAA		Alarm status				
Getting	Command	@GAA<CR><LF>				
	Response	@GAA, status_1, status_2, status_3, status_4, status_5_1, staus_5_2, ···, status_5_16, status_6_1, status_6_2, ···, status_6_16, status_7_1, status_7_2, ···, status_7_10<CR><LF>				
Parameter		status_1: Model number				
		<table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>FDX-S16U</td> <td>Model number</td> </tr> </tbody> </table>	Value	Description	FDX-S16U	Model number
		Value	Description			
		FDX-S16U	Model number			
		status_2: Version				
<table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>01.00.00</td> <td>Version</td> </tr> </tbody> </table>	Value	Description	01.00.00	Version		
Value	Description					
01.00.00	Version					
status_3: The number of valid data						
<table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>FDX-S08U : "9" (fixed) FDX-S16U : "12" (fixed) FDX-S32U : "22" (fixed) FDX-S64U : "43" (fixed)</td> </tr> </tbody> </table>	Value	Description	12	FDX-S08U : "9" (fixed) FDX-S16U : "12" (fixed) FDX-S32U : "22" (fixed) FDX-S64U : "43" (fixed)		
Value	Description					
12	FDX-S08U : "9" (fixed) FDX-S16U : "12" (fixed) FDX-S32U : "22" (fixed) FDX-S64U : "43" (fixed)					
		status_4: Power supply voltage status and audio board status				
		<table border="1"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0: Normal 1: Problem in power voltage 2: Problem in audio board (OPTION A for FDX-S64U) 4: Problem in audio board (OPTION B for FDX-S64U) 3: Problem in power voltage and audio board (OPTION A) 6: Problem in both audio boards (OPTION A and OPTION B) 7: Problem in power voltage and both audio boards (OPTION A, OPTION B)</td> </tr> </tbody> </table>	Value	Description	0	0: Normal 1: Problem in power voltage 2: Problem in audio board (OPTION A for FDX-S64U) 4: Problem in audio board (OPTION B for FDX-S64U) 3: Problem in power voltage and audio board (OPTION A) 6: Problem in both audio boards (OPTION A and OPTION B) 7: Problem in power voltage and both audio boards (OPTION A, OPTION B)
Value	Description					
0	0: Normal 1: Problem in power voltage 2: Problem in audio board (OPTION A for FDX-S64U) 4: Problem in audio board (OPTION B for FDX-S64U) 3: Problem in power voltage and audio board (OPTION A) 6: Problem in both audio boards (OPTION A and OPTION B) 7: Problem in power voltage and both audio boards (OPTION A, OPTION B)					

@GAA	Alarm status (Cont'd)				
Parameter	<p>status_5_1-16: Input board status</p> <p>FDX-S08U : Two boards of status_5_1 to status_5_2 FDX-S16U : Four boards of status_5_1 to status_5_4 FDX-S32U : Eight boards of status_5_1 to status_5_8 FDX-S64U : 16 boards of status_5_1 to status_5_16</p> <table border="1" data-bbox="483 506 1358 703"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0: Normal 2: Temperature problem 4: Problem other than temperature -1: No board is installed.</td> </tr> </tbody> </table>	Value	Description	0	0: Normal 2: Temperature problem 4: Problem other than temperature -1: No board is installed.
	Value	Description			
	0	0: Normal 2: Temperature problem 4: Problem other than temperature -1: No board is installed.			
	<p>status_6_1-16: Output board status</p> <p>FDX-S08U : Two boards of status_6_1 to status_6_2 FDX-S16U : Four boards of status_6_1 to status_6_4 FDX-S32U : Eight board of status_6_1 to status_6_8 FDX-S64U : 16 boards of status_6_1 to status_6_16</p> <table border="1" data-bbox="483 1016 1358 1214"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0: Normal 2: Temperature problem 4: Problem other than temperature -1: No board is installed.</td> </tr> </tbody> </table>	Value	Description	0	0: Normal 2: Temperature problem 4: Problem other than temperature -1: No board is installed.
	Value	Description			
	0	0: Normal 2: Temperature problem 4: Problem other than temperature -1: No board is installed.			
<p>status_7_1-10: Fan status</p> <p>FDX-S08U : Four boards of status_7_1 to status_7_4 FDX-S16U : Three fans of status_7_1 to status_7_3 FDX-S32U : Five fans of status_7_1 to status_7_5 FDX-S64U : 10 boards of status_7_1 to status_7_10</p> <table border="1" data-bbox="483 1527 1358 1648"> <thead> <tr> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0: Normal 1: Abnormal</td> </tr> </tbody> </table>	Value	Description	0	0: Normal 1: Abnormal	
Value	Description				
0	0: Normal 1: Abnormal				

@GAA		Alarm status (Cont'd)
Getting example	Command	@GAA<CR><LF>
	Response	@GAA,FDX-S16U,01.00.00,12,0,0,0,-1,-1,0,0,-1,-1,0,0,0<CR><LF>
	Description	Getting all alarm statuses - Model number : FDX-S16U - Version : 01.00.00 - The number of valid data : 12 - Power supply voltage and audio board status: Normal - Input board status: Input boards 1 to 2 : Normal Input boards 3 to 4 : No board is installed. - Output board status: Output boards 1 to 2 : Normal Output boards 3 to 4 : No board is installed. - Fan status: Fans 1 to 3 : Normal
Getting example	Command	@GAA<CR><LF>
	Response	@GAA,FDX-S32U,01.00.00,22,0,0,0,0,0,-1,-1,-1,-1,0,0,0,0,-1,-1,-1,-1,0,0,0,0,0<CR><LF>
	Description	Getting all alarm statuses - Model number : FDX-S32U - Version : 01.00.00 - The number of valid data : 22 - Power supply voltage and audio board status: Normal - Input board status: Input boards 1 to 4 : Normal Input boards 5 to 8 : No board is installed. - Output board status: Output boards 1 to 4 : Normal Output boards 5 to 8 : No board is installed. - Fan status: Fans 1 to 5 : Normal
Remarks		The numbers of I/O boards, fans, and power units differ depending on models.

3.4.20 Transmission mode

HDBaseT and SDVoE only

@G++ / @S++		RS-232C transmission sending channel
Getting	Command	@G++<CR><LF>
	Response	@G++, ch_1, ..., ch_8 (, ch_9, ..., ch_n)<CR><LF>
Setting	Command	@S++, ch_1 (, ch_2, ...)<CR><LF>
	Response	@S++, ch_1 (, ch_2, ...)<CR><LF>
Parameter		ch_1 to ch_n: RS-232C transmission sending channel 1 to n = OUT1 to OUTn, 101 to 100+n = IN1 to INn
Getting example	Command	@G++<CR><LF>
	Response	@G++,1,2,3,4<CR><LF>
	Description	Getting the RS-232C transmission sending channel OUT1 to OUT4: RS-232C transmission sending channel
Setting example	Command	@S++,1,12<CR><LF>
	Response	@S++,1,12<CR><LF>
	Description	Setting OUT1 and OUT12 to RS-232C transmission sending channel Completed
Remarks		—

HDBaseT and SDVoE only

@G+R / @S+R		RS-232C transmission receiving channel
Getting	Command	@G+R<CR><LF>
	Response	@G+R, channel<CR><LF>
Setting	Command	@S+R, channel<CR><LF>
	Response	@S+R, channel<CR><LF>
Parameter		channel: RS-232C transmission receiving channel 1 to n = OUT1 to OUTn, 101 to 100+n = IN1 to INn
Getting example	Command	@G+R<CR><LF>
	Response	@G+R,4<CR><LF>
	Description	Getting the RS-232C transmission receiving channel OUT4: RS-232C transmission receiving channel
Setting example	Command	@S+R,1<CR><LF>
	Response	@S+R,1<CR><LF>
	Description	Setting OUT1 to RS-232C transmission receiving channel Completed
Remarks		—

HDBaseT and SDVoE only

@G+S / @S+S		RS-232C transmission mode
Getting	Command	@G+S<CR><LF>
	Response	@G+S, mode<CR><LF>
Setting	Command	@S+S, mode<CR><LF>
	Response	@S+S, mode<CR><LF>
Parameter		mode: Setting RS-232C transmission mode 0 = Normal mode, 1 = RS-232C mode After setting to RS-232C transmission mode, RS-232C is used for communication with FDX-S until a normal mode command is received.
Getting example	Command	@G+S<CR><LF>
	Response	@G+S,1<CR><LF>
	Description	Getting to the RS-232C transmission mode RS-232C transmission mode
Setting example	Command	@S+S,0<CR><LF>
	Response	@S+S,0<CR><LF>
	Description	Setting the RS-232C transmission mode to normal mode Completed
Remarks		—

HDBaseT and SDVoE only

@G-- / @S--		LAN transmission sending channel
Getting	Command	@G--<CR><LF>
	Response	@G--, ch_1, ..., ch_8 (, ch_9, ..., ch_n)<CR><LF>
Setting	Command	@S--, ch_1 (, ch_2, ...)<CR><LF>
	Response	@S--, ch_1 (, ch_2, ...)<CR><LF>
Parameter		ch_1 to ch_n: LAN transmission sending channel 1 to n = OUT1 to OUTn, 101 to 100+n = IN1 to INn
Getting example	Command	@G--<CR><LF>
	Response	@G--,1,2,3,4<CR><LF>
	Description	Getting the LAN transmission sending channel OUT1 to OUT4: LAN transmission sending channel
Setting example	Command	@S--,1,12<CR><LF>
	Response	@S--,1,12<CR><LF>
	Description	Setting OUT1 and OUT12 to LAN transmission sending channel Completed
Remarks		—

HDBaseT and SDVoE only

@G-R / @S-R		LAN transmission receiving channel
Getting	Command	@G-R<CR><LF>
	Response	@G-R, ch_1, ..., ch_8 (, ch_9, ..., ch_n)<CR><LF>
Setting	Command	@S-R, ch_1 (, ch_2, ...)<CR><LF>
	Response	@S-R, ch_1 (, ch_2, ...)<CR><LF>
Parameter		ch_1 to ch_n: LAN transmission receiving channel 1 to n = OUT1 to OUTn, 101 to 100+n = IN1 to INn
Getting example	Command	@G-R<CR><LF>
	Response	@G-R,4<CR><LF>
	Description	Getting the LAN transmission receiving channel OUT4: LAN transmission receiving channel
	Setting example	Command
	Response	@S-R,1<CR><LF>
	Description	Setting OUT1 to LAN transmission receiving channel Completed
Remarks		—

HDBaseT and SDVoE only

@G-S / @S-S		LAN transmission mode
Getting	Command	@G-S<CR><LF>
	Response	@G-S, mode<CR><LF>
Setting	Command	@S-S, mode<CR><LF>
	Response	@S-S, mode<CR><LF>
Parameter		mode: Setting LAN transmission mode 0 = Normal mode, 1 = LAN mode After setting to LAN transmission mode, LAN is used for communication with FDX-S until a normal mode command is received.
Getting example	Command	@G-S<CR><LF>
	Response	@G-S,0<CR><LF>
	Description	Getting to the LAN transmission mode LAN transmission mode
	Setting example	Command
	Response	@S-S,0<CR><LF>
	Description	Setting the LAN transmission mode to normal mode Completed
Remarks		—

User Guide (Command Guide) of FDX-S Series

Ver.4.10.0

Issued on: 5 January 2026



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