



BrightEye Gateway 4

ST 2110/SDI gateway

Bi-directional four-channel

ST-2110/2022-7/25G/4K/12G/3G/1.5G

Simultaneous encapsulation and de-encapsulation

Product Highlights:

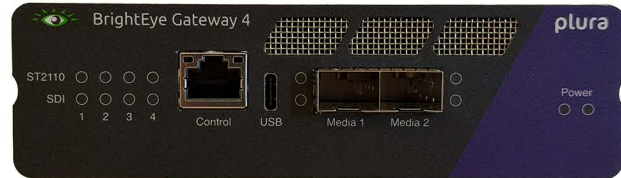
The BrightEye Gateway 4 is a high-performance, bi-directional four-channel ST 2110/SDI gateway designed to bridge SDI and IP workflows, supporting resolutions up to 4096 x 2160. It supports 12G, 3G, and HD-SDI, enabling simultaneous encapsulation and de-encapsulation for flexible live production.

The system features dual 25GbE/10GbE media LAN ports and a dedicated 1GbE out-of-band control LAN for reliable connectivity, along with ST 2022-7 seamless protection switching to ensure uninterrupted signal transport.

With extensive control support—including NMOS, Ember+, SNMP, USB, RS232, and GPIO—it integrates easily into modern broadcast and professional media environments. The Gateway 4 also offers broad interoperability with third-party IP, UHD, and FHD solutions, giving customers flexibility and confidence in building seamless end-to-end production workflows.

Standards & Support

- 2 x 25 GbE SFP28 ports supporting ST 2110, ST 2022-7
- 8 x 12G, 6G, 3G, 1.5G ports
- Supports up to 4096 x 2160 resolutions
- HDR (High Dynamic Range) capabilities
- NMOS, Ember+, SNMP, USB, RS232, and GPIO Control
- Closed Caption (608/708) – Teletext 801 & Subtitle OP-47



Ember+, NMOS, JT-NM Interoperability

Management Interface support (NMOS, In-band) and (Web UI/NMOS, Ember+, via the Out-band control network port).

- NMOS IS-04 discovery and registration
- NMOS IS-05 device connection management
- JT-NM NMOS certification support
- JSON snippet for NMOS control support
- Ember+ support with extensive Ember+ tree control
- Session Description Path “SDP” file support
- IGMP V2 & V3 support • Plura web user interface “UI” support

ST 2110, ST 2022-7 & PTP/ST 2059 V2

- Signal will be locked to PTP and aligned to ST 2059 provisions
- ST 2110-10, System architecture and synchronization: essences, RTP, SIP and PTP
- ST 2110-20, Uncompressed video transport, Wide / Narrow types
- ST 2110-21, Traffic shaping and network delivery timing
- ST 2110-30, Audio transport profile level C, 16CH, 48Khz sample rate, 11ms/.125~s
- ST 2110-40, Transport of ancillary data
- ST 2022-7 seamless protection switching providing data loss protection

Plura X Processing

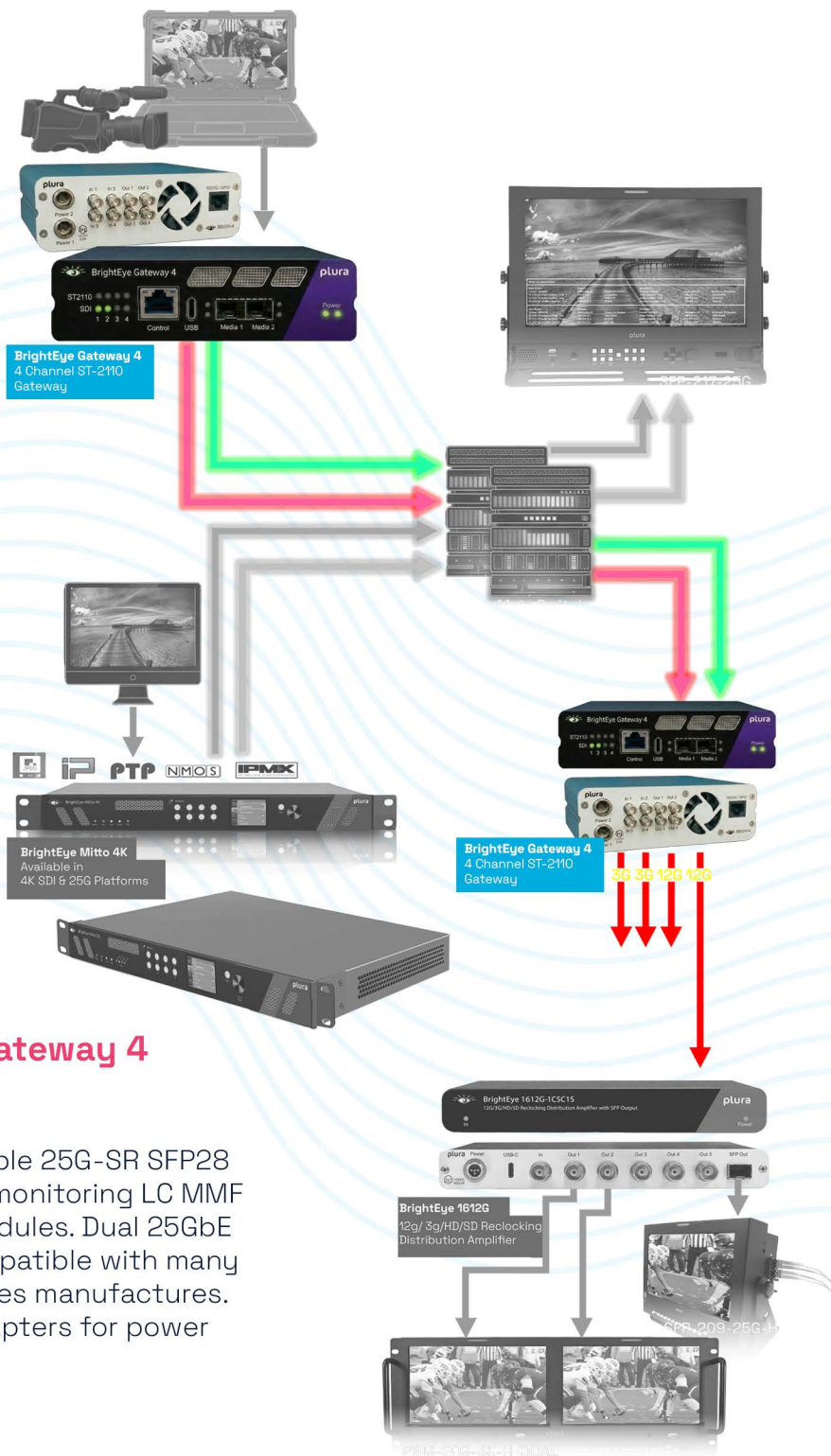
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BrightEye Gateway 4 Production Workflow

The BrightEye Gateway 4 provides comprehensive interoperability capabilities with wide range of third-party IPUHD-FHD media platforms with a seamless end-to-end production workflow. It can encode & decodes multiple SMPTE 2110 & 2022-7 media streams within any broadcast and professional media SDI & IP 2110 infrastructures.



Plura BrightEye Gateway 4 is equipped with

- Two generic compatible 25G-SR SFP28 850nm digital optical monitoring LC MMF optical transceiver modules. Dual 25GbE channels are fully compatible with many MM and SM SFP modules manufacturers.
- Two AC/DC power adapters for power redundancy.

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TECHNICAL SPECIFICATIONS

	FUNCTION	BrightEye Gateway 4
INPUT	SDI	4 EA, Serial Digital, 12G/3G/HD-SDI BNC Jack
	SFP28 ETHERNET-25G	Dual 25G MEDIALAN 1 & MEDIALAN 2
OUTPUT	SDI	4 EA, Serial Digital, 12G/3G/HD-SDI BNC Jack
	SFP28 ETHERNET-25G	Dual 25G MEDIALAN 1 & MEDIALAN 2
DIGITAL MEDIA FORMATS	SMPTE-ST 2082M	4096x2160 (23.98/24/25/29.97/30/47.95/48/50/60P) & 3840x2160 (23.98/24/25/29.97/30/50/59.94/60p)
	SMPTE-428.1M	2048x1080P (24/25)
	SMPTE-425 (3G)	1080p(60/59.94/50/30/29.97/25/24/23.98/30sF/29.97sF25sF/24sF/23.98sF) 1080i (60/59.94/50)
	SMPTE-260M	1920x1035i(60/59.94)
	SMPTE-292M	1920x1080i (50/59.94/60) 1920x1080P (30PsF/25PsF/24PsF/30/25/24)
	SMPTE-372M	1080P(30/29.97/25/24/23.98)
		1080i(29.97/25/24/23.98)
		720P(60/59.94/50)
SMPTE-296M	1280x720P (50/59.94/60)	
I/O PORT CONTROL	GPI	RJ-45 8 Pin (4 GPIO Programmable Lines)
	IN-BAND CONTROL LAN	Dual 25Gbps using media lan supported for NMOS control applications
	OUT-BAND CONTROL LAN	RJ-45 8 pin Ethernet port, 1 GbE, supported for IP management, NMOS & Ember+ control applications
	USB	Control Applications
	RS232	Control Applications, RJ45 connector, combined with 4 GPIO lines
MEDIA LICENSE	HTTP	HTTP/HTTPS Web Interface
	ST-2110	X
	ST-2022-7	X
POWER REQUIREMENT		Dual Mini-XLR 12V Power Ports for Redundancy
POWER CONSUMPTION		36W
OPERATING TEMPERATURE		0°C ~ 40°C (32°~104°F)
WORKING HUMIDITY		10%RH ~ 85%RH (Non Condensed)
STORAGE TEMPERATURE		-10°C ~ 80°C (14°~176°F)
STORAGE HUMIDITY		10%RH ~ 85%RH (Non Condensed)
WEIGHT		62.6 g - 1 Lb 6 oz
DIMENSIONS (WXHXD) (including connectors and flange)		(143 mm x 42 mm x 153 mm) 5.63" W x 1.65" H x 6.01" D
ACCESSORY		Dual BEPS-12G - AC/DC Adapters and Power cords
OPTIONS		BERKMT-Full - Rackmount 3 units per 1 RU.

Please note that the technical details shown here are provisional specifications (as of April 2026). The Information is subject to change without notice.

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BEGW-4

