



FiberLink® ST2110 Gateway Series



The FiberLink FL ST2110 series supports 2 channels (2 In/2 Out) of independent 3G/HD-SDI signals and provides a gateway function using ST2110 into dual 10GE media ports

The FL ST2110 Gateway adapts to rapidly changing IP environments, quietly bridging SDI interfaces to JT-NM Tested ST2110 media streams.

Designed with studio applications in mind and mounting flexibility

It can be managed using open control protocols such as NMOS, EmBER+, and DashBoard, etc., thus providing flexibility to be used in different environments.

FEATURES

2 Channels(2 In/2 Out)SDI/IP Gateway

SMPTE ST 2110 suite, including:

- -10, System Timing and Definitions
- -20, Uncompressed Active Video
- -21, narrow sender & wide receiver
- -30, PCM Digital Audio, Conformance Level A & B & C

SMPTE ST 2022-7 – Seamless Protection Switching

2 video streams up to 1080p

32+32audio streams with WAN buffering

16 audio channels embed/extract per SDI interface, with shuffle

OPEN CONTROL

- Gives you the freedom to run from our control system, and/or seamlessly from many 3rd-party control systems (e.g. VSM, Convergent, Magellan, etc.)

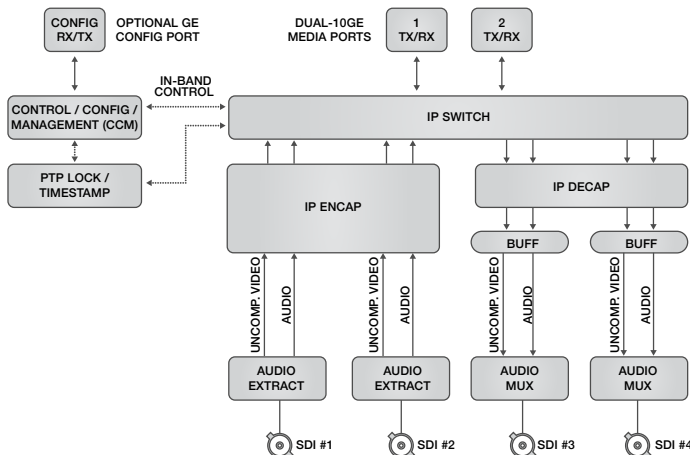
Supports both Single Mode and Multimode (62.5u & 50u) fiber types

VESA, desk, pillar and other mounting via optional brackets.

Optional rack tray provides secure placement of three FL ST2110 gateways, bricks and cable management.

Studio quiet operation

Operating: 0°C to +40°C



SPECIFICATIONS

FiberLink ST2110 Gateway Transmitter Specification

Video BNC Inputs

Number of BNC Inputs	2
Data Rate Range	1.485 Gbps to 2.97 Gbps
Supported Formats	720p 50Hz, 720p 59.94Hz, 720p 60Hz, 1080i 50, 1080i 59.94, 1080i 60, 1080p 50, 1080p 59.94, 1080p 60

Network side Transmitter Port- Single mode/Multimode

Connector	LC
Port Type	10GBASE-LR
Center wavelength	1310nm/850nm
Optical Return Loss (max.)	12dB
Link Length (max.)	10km
OMA output power (min)	-5.2 dBm/-5dBm
Extinction ratio (min)	3.5dBm/3dBm
Side Mode Suppression Ratio - SMSR (min.)	30dB

FiberLink ST2110 Receiver Specifications

Network side Receiver Port - Single Mode/Multimode

Connector	LC
Wavelength	1310 nm/850nm
Receiver Sensitivity in OMA (max.)	-12.6 dBm/-11dBm
Stressed Receive Sensitivity OMA (max.)	-10.3dBm/-7.5dBm
Link Length	10 km for SMF/see below for MMF

Fiber Type	Category	Minimum Modal BW @850nm (MHz*km)	Operating Range (m)
62.5um MMF	FDDI	160	2-26
	OM1	200	2-33
50um MMF	OM2	500	2-83
	OM3	2000	2-300

Video BNC Outputs

Number of BNC Video Outputs	2
Signal Level	800mV ± 10%
DC Offset	0V ± 0.5mV
Rise/Fall Time	1.485Gbps: <270ps, <100ps difference 2.97Gbps:<135ps,<50ps difference
Standards Accommodated	SMPTE ST 2082-1
Overshoot	< 10% of amplitude
Jitter	1.485Gbps: <1.0UI jitter measured 10Hz-100kHz, <0.2UI above 100kHz 2.97Gbps: <1.0UI jitter measured 10Hz-100kHz, <0.3UI above 100kHz
Return Loss	>15dB to 1.485Gbps >10dB to 2.97Gbps

FiberLink ST2110 Gateway

General Specifications

Box Version Dimensions	4.98 x 6.75 x 1.63 (in) 126.49 x 171.45 x 41.40 (mm)
Weight	815grams (1.8 pounds)
Required voltage	15V
Power consumption	15-40W (application dependent)
Current consumption	1-2.67A
Maximum Ambient Temperature	40°C (104°F)

FiberLink ST2110 Gateway

Control Specifications

Number of control ports	1
Standards Accommodated	10/100/1000BASE-T
Connector Type	RJ45



UPDATED 05/07/2020
All specifications subject to change without notice. ©2020

Ordering Information

Part Number	Description
397-030010-00	FiberLink FL ST2110 Gateway

Sales



T: 978-263-5775
sales@artel.com
customer@artel.com
www.artel.com