



Flashlink

IP-CONNECT

Multi-format, multi-signal IP connectivity

Flashlink IP-Connect gives your baseband infrastructure IP connectivity.

Compact and ultra-quiet, Flashlink IP-Connect is a pre-packaged solution well suited for stage-boxes, that enables you to connect all the devices using IP over fiber to those noisy switches placed away from the studio floor.*

Flashlink IP-Connect carries all the signals in the various formats used in production with sub-frame latency. Flashlink IP-Connect also comes with an integrated CWDM option to bring even higher data-rates over a single fiber.

Applications

- Extending your IP production LAN
- Connect your control room to IP
- IP in the field
- Connecting your studio to IP

Key features

- Multi-channel video over SMPTE2022-6
- Analog and digital Audio over AES67
- GPI in and out for Tally over IP
- Serial data RS422/232/485 over IP
- PTP sync to Analog black
- Sub-frame latency
- Direction configurable video ports

*Assumes PTP in the IP network

IP in the Field

In an environment where the time used to setup and tear down the production is critical, Flashlink IP-Connect is rugged and fits neatly in light weight stage boxes of various sizes, making it an ideal baseband-to-IP connectivity solution in the field.



Connecting your studio or control room to IP

In an environment where equipment noise is not tolerated, Nevion's Flashlink IP-Connect lets you place the noisy switches away from the studio floor or control room while connecting all your baseband devices using IP over fiber with sub-frame latency performance.

Extending your IP production LAN

Flashlink IP Connect enables you to extend your IP local area network (LAN) over dark-fiber to your non-IP locations, laying the foundations for an eventual migration of those locations to IP – when you are ready and it makes business sense for you.

FLASHLINK IP-CONNECT M

Baseband connectivity

- 6/8x 3G/HD-SDI in
- 6/8x 3G/HD-SDI out
- 4x Analog Audio in
- 4x Analog Audio out
- 4x AES in
- 4x AES out
- 4x GPI in
- 4X GPI out
- 4x RS422/232
- 1x GbE
- 4x Sync



SFP options

Short haul, Medium haul, CWDM-25km, CWDM-40km (includes SFPs towards IP switch)

FLASHLINK IP-CONNECT L

Baseband connectivity

- 12/16x 3G/HD-SDI in
- 12/16x 3G/HD-SDI out
- 8x Analog Audio in
- 8x Analog Audio out
- 8x AES in
- 8x AES out
- 4x GPI in
- 4X GPI out
- 4x RS422/232
- 3x GbE
- 4x Sync



SFP options

Short haul, Medium haul, CWDM-25km, CWDM-40km (includes SFPs towards IP switch)

See also:

FLASHLINK IP-CONNECT FLASHCASE

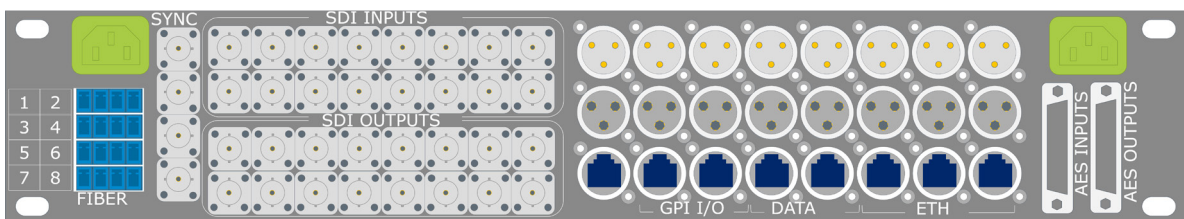
Baseband connectivity

- 3/3x 3G/HD-SDI in
- 3/4x 3G/HD-SDI out
- 4x Analog Audio in
- 4x Analog Audio out
- 2x AES in
- 2x AES out
- 3x GPI in
- 3X GPI out
- 2x RS422/232
- 1x GbE
- 3x Sync



SFP options

Medium haul, (includes SFPs towards IP switch)



IP-CONNECT backplane (optional)

IP-CONNECT**General**

Power	100-240VAC / 120W, redundant
No of inputs	2 (IEC-C14)
User interface	WEB INTERFACE
Size	19" width, 2RU height
Opr. Temperature	0-40°C
Assumes PTP in the IP network	

Supported standards

SMPTE 259M, SMPTE 272M-AC, SMPTE 274M, SMPTE 291M, SMPTE 292, SMPTE 296M, SMPTE 299, SMPTE2059-1/2, SMPTE2022-6, IEEE1588-2008, AES3-2003, AES-67

Optical Ethernet Interface

No of GbE interfaces	4 (model L), 2 (model M)
No of 10GbE interfaces	4 (model L), 2 (model M)
Connector	SC/UPC and LC/UPC

Electrical SDI inputs

No of inputs	8 - 24 (16 direction configurable I/Os, max 32x inputs + outputs) (Model L), 4 - 12 (8 direction configurable I/Os, max 16x inputs + outputs) (model M)
Signal type	3G-SDI, HD-SDI, SD-SDI
Cable equalization	Automatic 70m w/ Belden 1694A
Connectors	HD-BNC or DIN 1.0/2.3, 75Ohm

Electrical SDI outputs

No of outputs	8 - 24 (16 direction configurable I/Os, max 32x inputs + outputs) (model L), 4 - 12 (8 direction configurable I/Os, max 16x inputs + outputs) (model M)
Signal type	3G-SDI, HD-SDI, SD-SDI
Signal polarity	Non-inverting
Output signal level	800mV +/-10%
Connectors	HD-BNC or DIN 1.0/2.3, 75Ohm

Analog sync outputs

No of outputs	4 external to backplane + 1 internal to frame
Supported formats	Analog black (no burst)
Connector	HD-BNC or DIN 1.0/2.3, 75Ohm

Digital sync outputs

No of outputs	1
Supported formats	SD-SDI 525i/59.94, 625i/50
Connector	HD-BNC or DIN 1.0/2.3, 75Ohm

1PPS outputs

No of outputs	3
Supported formats	TTL
Connector	HD-BNC or DIN 1.0/2.3, 75Ohm

Digital audio inputs

No of inputs	8 (model L), 4 (model M)
Signal type	AES-3
Connector	DB-25F

Digital audio outputs

No of outputs	8 (model L), 4 (model M)
Signal type	AES-3
Connector	DB-25F

Analog audio inputs

No of inputs	8 (model L), 4 (model M)
Connector	DB-25F
Impedance	24k Ohm
Dynamic range	typ.107dB(A)
Frequency response	20Hz-20kHz +/-0.1dB
A/D conversion	24 bit

Analog audio outputs

No of outputs	8 (model L), 4 (model M)
Connector	DB-25F
Impedance	53 Ohm
Dynamic range	typ.107dB(A)
Frequency response	20Hz-20kHz +/-0.1dB
D/A conversion	24 bit

Electrical Ethernet Port

No of Ports	3 (model L), 1 (model M)
Signal type	10Mb Ethernet, 100Mb Ethernet, 1Gb Ethernet
Connector	RJ45

Configurable serial data port

No of Ports	2
Signal type	RS232 or RS422 / RS485
Connector	Molex KK 5pin
Supported bitrates	9600bps, 19200bps, 28800bps, 38400bps, 57600bps, 115200bps

Serial data port

No of Ports	4
Signal type	RS422 / RS485
Connector	Molex KK 5pin
Supported bitrates	9600bps, 19200bps, 28800bps, 38400bps, 57600bps, 115200bps

GPI inputs

No of inputs	4
Signal type	Internal pull-up to 5V
Connector	Molex KK 5pin

GPI outputs

No of outputs	4
Signal type	Open collector transistor
Maximum voltage	30V
Maximum current	100mA
Connector	Molex KK 5pin



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