IRT COMMUNICATIONS

12G 6G 3G HD SD ASI +

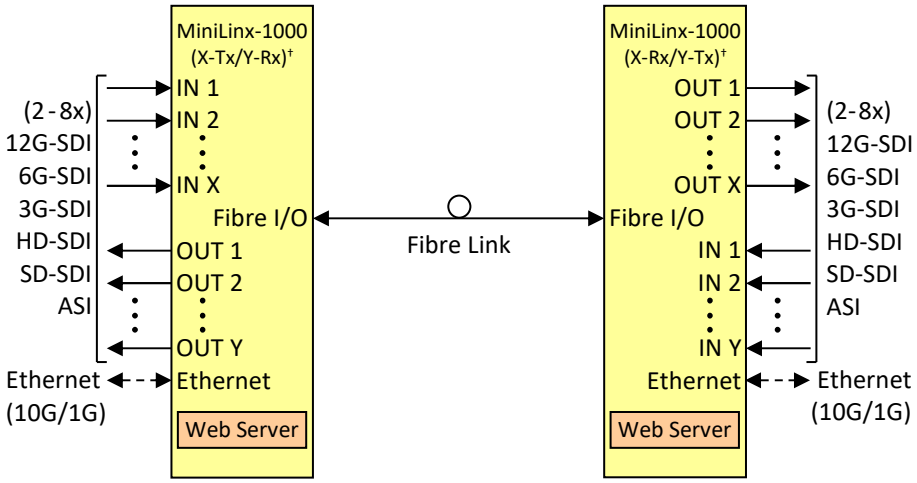
MiniLinx-1000

Multi-Channel 12G/6G/3G/HD/SD/ASI + 10G/1G Ethernet Fibre Optic Link

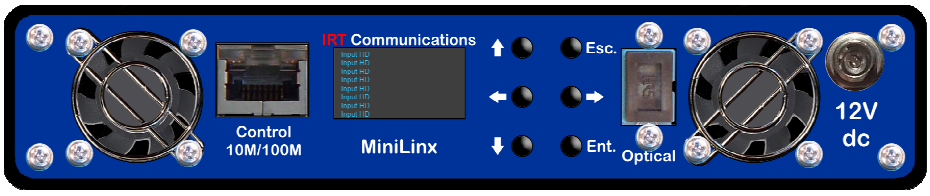
FEATURES

- **Portable – Desktop mount.**
- **Transports up to 8 independent 12G-SDI[1], 6G-SDI[1], 3G-SDI, HD-SDI, SD-SDI or ASI signal rates plus a 10G or 1G Ethernet[2] signal on a single fibre.**
- **Suitable for 4K/UHD video[3].**
- **Path lengths up to 25 dB[4] optical path loss using 9/125µm single mode fibre.**
- **MiniLinx-1000 available as either 8 Tx; 8 Rx; 6 Tx + 2 Rx; 6 Rx + 2 Tx; 4 Tx + 4 Rx; 4 Rx + 4 Tx; 6 Tx; 6 Rx; 4 Tx + 2 Rx; 4 Rx + T Rx; 4 Tx; 4 Rx; 2 Tx + 2 Rx; or 2 Rx + 2 Tx models.**
- **Two DC supply inputs for power supply redundancy.**
- **Web Browser monitoring and control.**

BLOCK DIAGRAM MiniLinx-1000 SIGNAL PATH



NOTE: † X & Y = 8, 6, 4, 2 or 0 to represent various models of MiniLinx-1000. See individual block diagrams of the models available.



GENERAL

The MiniLinx-1000 is a portable multi-channel transmitter / receiver unit designed principally for use as an up to eight serial data + Ethernet[2] fibre optic transmission link on a single fibre for 12G-SDI[1], 6G-SDI[1], 3G-SDI, HD-SDI or SD-SDI applications using 9/125 µm single mode fibre.

In addition, the link may be used for ASI transport streams for use with MPEG compressed video streams, or other 270 Mb/s type data.

The Ethernet interface takes either a 10G or 1G optical or electrical plug-in SFP+ module (sold separately).

The MiniLinx-1000 conforms to SMPTE standards 2082-1[1], 2081-1[1], 424M, 292M and 259M-C for digital video signals, as well as the DVB standard for ASI; and IEEE 802.2ae and 802.3z standards for Ethernet over fibre or IEEE 802.3an and 802.3ab standards for Ethernet over CAT-6/5 cable.

Transmit and receive functions of the video signals and Ethernet signals are combined via an on board CWDM optical combiner allowing combined bi-directional operation on a single fibre.

Power is supplied by an external +12Vdc power supply, with a secondary external +12Vdc input port provided for power supply redundancy.

The MiniLinx-1000 is designed to be operated as a transmit/receive pair and is orderable as either an 8-channel transmitter only; an 8-channel receiver only; a 6-channel transmitter + 2-channel receiver; a 6-channel receiver + 2-channel transmitter; a 4-channel transmitter + 4-channel receiver; a 4-channel receiver + 4-channel transmitter; a 6-channel transmitter only; a 6-channel receiver only; a 4-channel transmitter + 2-channel receiver; a 4-channel receiver + 2-channel transmitter; a 4-channel transmitter only; a 4-channel receiver only; a 2-channel transmitter + 2-channel receiver; or a 2-channel receiver + 2-channel transmitter. All models available with or without the bi-directional Ethernet port.

Monitoring is possible locally via the front panel display or remotely via a web browser.

NOTE:1 12G-SDI and 6G-SDI only applicable to 12G versions of MiniLinx-1000.

2 Ethernet port only available on Ethernet versions of MiniLinx-1000. Ethernet SFP's not included - sold separately. 10G or 1G Ethernet SFP, type MSA, required for Ethernet operation.

3 Suitable for 4K/UHD as a 12G-SDI or 6G-SDI signal on 12G version of MiniLinx-1000 only; 4K/UHD as quad 3G-SDI signal suitable on both 12G and standard 3G versions of MiniLinx-1000.

4 Rated at 25dB optical path loss at 3G-SDI on 4-Channel, non-Ethernet versions of MiniLinx-1000 fitted with APD detectors, typically >28dB at HD and SD.

MiniLinx-1000

TECHNICAL SPECIFICATIONS (Preliminary)

Transmitter Mode:

Input serial data signal	11.88 Gb/s (12G-SDI) to SMPTE 2082-1[5]; 5.94 Gb/s (6G-SDI) to SMPTE 2081-1[5]; 2.97 Gb/s (3G-SDI) to SMPTE 424M; 1.485 Gb/s (HD-SDI) to SMPTE 292M; 270 Mb/s (SD-SDI) to SMPTE 259M-C and DVB-ASI.
Input impedance	75 Ω.
Input return loss	> 15 dB 5 MHz to 1.5 GHz; > 10 dB 1.5 GHz to 2.97 GHz.
Automatic cable compensation	> 40m at 11.88 Gb/s (12G-SDI) with RG6/U[5]; > 80m at 5.94 Gb/s (6G-SDI) with RG6/U[5]; > 100 m at 2.97 Gb/s (3G-SDI) with Belden 1694A; > 100 m at 1.485 Gb/s (HD-SDI) with Belden 1694A; > 250 m at 270 Mb/s (SD-SDI/ASI) with Belden 8281.
Input Connector	Up to 8 x BNC on rear panel, 1 per channel, dependent upon model chosen.

Receiver Mode:

Number of outputs	1 per channel, data reclocked, AC coupled.
Output level	800 mV ± 10%.
Output impedance	75 Ω.
Output return loss	> 15 dB 5 MHz to 1.5 GHz; > 10 dB 1.5 GHz to 2.97 GHz.
Output rise and fall time	< 135 ps at 2.97 Gb/s and 1.485 Gb/s; > 0.4 ns and < 1.5 ns at 270 Mb/s.
Intrinsic jitter	< 0.3 UI at 2.97 Gb/s reclocked; < 0.2 UI at 1.485 Gb/s reclocked; < 0.1 UI at 270 Mb/s reclocked.
Output Connector	Up to 8 x BNC on rear panel, 1 per channel, dependent upon model chosen.

Ethernet:[6] (if fitted)

	If Ethernet port required, add '+E' to end of desired model's order code.
Type	Standard IEEE 802.3ae & 802.3z (optical option); or IEEE 802.3an & 802.3ab (electrical option), dependent on plug-in SFP+ used (sold separately).
Data Rate	10 Gb/s / 1 Gb/s, automatic.
Connector (dependent on SFP used)	2 x LC/PC optical; or RJ-45 electrical.

Optical:

Optical Output		0 dBm +5/-0 dB individual CWDM DFB lasers, optically combined.
Optical Input	**(3G PIN Standard)**	0 to -16 dBm at 3G-SDI, typically < -18 dBm at HD/SD-SDI;
	(3G APD Optional)	-7 to -25 dBm at 3G-SDI, typically < -28 dBm at HD/SD-SDI;
	(12G PIN Optional[7])	0 to -12 dBm at 12G/6G-SDI, typically < -15 dBm at 3G-SDI & < -17 dBm at HD/SD-SDI.
Wavelengths		10 x CWDM DFB lasers – 1390nm, 1410nm, 1470nm to 1610nm, 20nm spacing.
Optical Path Loss[8,9,10]		0 to 14 dB at 3G-SDI, typically > 16 dB at HD/SD-SDI (3G PIN detectors); 5 to 23 dB at 3G-SDI, typically > 26 dB at HD/SD-SDI (3G APD detectors); 0 to 10 dB, typically > 13 dB at 3G-SDI & > 15 dB at HD/SD-SDI (12G PIN detectors[7]).
Optical Fibre		Designed for use with 9/125 µm single mode fibre.
Optical Connector		1 x SC/PC (standard) on rear.

Power Requirements:

Voltage	+ 12 Vdc.
Power Consumption	< 20 VA.

Other:

Temperature Range	0 - 50° C ambient.
Dimensions	160 x 30.5 x 165 mm.

NOTE:
5 12G-SDI and 6G-SDI only applicable to 12G versions of MiniLinx-1000.
6 Ethernet port only available on Ethernet versions of MiniLinx-1000. Ethernet SFP's not included - sold separately. 10G or 1G Ethernet SFP, type MSA, required for Ethernet operation.
7 12G SFP lasers and detectors only applicable to 12G versions of MiniLinx-1000.
8 10dB Optical attenuator required for when optical path loss is less 7dB for 3G APD detector.
9 Add 1.5 dB to optical path loss for 4Tx+E, 4Rx+E, 2Tx+2Rx+E and 2Rx+2Tx+E models.
10 Add 0.5 dB to optical path loss for non-Ethernet versions.

TECHNICAL SPECIFICATIONS (Continued)

Ordering:

3G versions without Ethernet port:

MiniLinx-1000/8Tx	MiniLinx-1000 configured as a 3G 8-channel transmitter only.
MiniLinx-1000/8Rx	MiniLinx-1000 configured as a 3G 8-channel receiver only.
MiniLinx-1000/6Tx+2Rx	MiniLinx-1000 configured as a 3G 6-channel transmitter, 2-channel receiver.
MiniLinx-1000/6Rx+2Tx	MiniLinx-1000 configured as a 3G 6-channel receiver, 2-channel transmitter.
MiniLinx-1000/4Tx+4Rx	MiniLinx-1000 configured as a 3G 4-channel transmitter, 4-channel receiver.
MiniLinx-1000/4Rx+4Tx	MiniLinx-1000 configured as a 3G 4-channel receiver, 4-channel transmitter.
MiniLinx-1000/6Tx	MiniLinx-1000 configured as a 3G 6-channel transmitter only.
MiniLinx-1000/6Rx	MiniLinx-1000 configured as a 3G 6-channel receiver only.
MiniLinx-1000/4Tx+2Rx	MiniLinx-1000 configured as a 3G 4-channel transmitter, 2-channel receiver.
MiniLinx-1000/4Rx+2Tx	MiniLinx-1000 configured as a 3G 4-channel receiver, 2-channel transmitter.
MiniLinx-1000/4Tx	MiniLinx-1000 configured as a 3G 4-channel transmitter only.
MiniLinx-1000/4Rx	MiniLinx-1000 configured as a 3G 4-channel receiver only.
MiniLinx-1000/2Tx+2Rx	MiniLinx-1000 configured as a 3G 2-channel transmitter, 2-channel receiver.
MiniLinx-1000/2Rx+2Tx	MiniLinx-1000 configured as a 3G 2-channel receiver, 2-channel transmitter.

3G versions with 1G Ethernet port:

MiniLinx-1000/8Tx+E	MiniLinx-1000 configured as a 3G 8-channel transmitter only + 1G Ethernet port.
MiniLinx-1000/8Rx+E	MiniLinx-1000 configured as a 3G 8-channel receiver only + 1G Ethernet port.
MiniLinx-1000/6Tx+2Rx+E	MiniLinx-1000 configured as a 3G 6-channel transmitter, 2-channel receiver + 1G Ethernet port.
MiniLinx-1000/6Rx+2Tx+E	MiniLinx-1000 configured as a 3G 6-channel receiver, 2-channel transmitter + 1G Ethernet port.
MiniLinx-1000/4Tx+4Rx+E	MiniLinx-1000 configured as a 3G 4-channel transmitter, 4-channel receiver + 1G Ethernet port.
MiniLinx-1000/4Rx+4Tx+E	MiniLinx-1000 configured as a 3G 4-channel receiver, 4-channel transmitter + 1G Ethernet port.
MiniLinx-1000/6Tx+E	MiniLinx-1000 configured as a 3G 6-channel transmitter only + 1G Ethernet port.
MiniLinx-1000/6Rx+E	MiniLinx-1000 configured as a 3G 6-channel receiver only + 1G Ethernet port.
MiniLinx-1000/4Tx+2Rx+E	MiniLinx-1000 configured as a 3G 4-channel transmitter, 2-channel receiver + 1G Ethernet port.
MiniLinx-1000/4Rx+2Tx+E	MiniLinx-1000 configured as a 3G 4-channel receiver, 2-channel transmitter + 1G Ethernet port.
MiniLinx-1000/4Tx+E	MiniLinx-1000 configured as a 3G 4-channel transmitter only + 1G Ethernet port.
MiniLinx-1000/4Rx+E	MiniLinx-1000 configured as a 3G 4-channel receiver only + 1G Ethernet port.
MiniLinx-1000/2Tx+2Rx+E	MiniLinx-1000 configured as a 3G 2-channel transmitter, 2-channel receiver + 1G Ethernet port.
MiniLinx-1000/2Rx+2Tx+E	MiniLinx-1000 configured as a 3G 2-channel receiver, 2-channel transmitter + 1G Ethernet port.

3G versions with 10G Ethernet port:

MiniLinx-1000/8Tx+10E	MiniLinx-1000 configured as a 3G 8-channel transmitter only + 10G Ethernet port.
MiniLinx-1000/8Rx+10E	MiniLinx-1000 configured as a 3G 8-channel receiver only + 10G Ethernet port.
MiniLinx-1000/6Tx+2Rx+10E	MiniLinx-1000 configured as a 3G 6-channel transmitter, 2-channel receiver + 10G Ethernet port.
MiniLinx-1000/6Rx+2Tx+10E	MiniLinx-1000 configured as a 3G 6-channel receiver, 2-channel transmitter + 10G Ethernet port.
MiniLinx-1000/4Tx+4Rx+10E	MiniLinx-1000 configured as a 3G 4-channel transmitter, 4-channel receiver + 10G Ethernet port.
MiniLinx-1000/4Rx+4Tx+10E	MiniLinx-1000 configured as a 3G 4-channel receiver, 4-channel transmitter + 10G Ethernet port.
MiniLinx-1000/6Tx+10E	MiniLinx-1000 configured as a 3G 6-channel transmitter only + 10G Ethernet port.
MiniLinx-1000/6Rx+10E	MiniLinx-1000 configured as a 3G 6-channel receiver only + 10G Ethernet port.
MiniLinx-1000/4Tx+2Rx+10E	MiniLinx-1000 configured as a 3G 4-channel transmitter, 2-channel receiver + 10G Ethernet port.
MiniLinx-1000/4Rx+2Tx+10E	MiniLinx-1000 configured as a 3G 4-channel receiver, 2-channel transmitter + 10G Ethernet port.
MiniLinx-1000/4Tx+10E	MiniLinx-1000 configured as a 3G 4-channel transmitter only + 10G Ethernet port.
MiniLinx-1000/4Rx+10E	MiniLinx-1000 configured as a 3G 4-channel receiver only + 10G Ethernet port.
MiniLinx-1000/2Tx+2Rx+10E	MiniLinx-1000 configured as a 3G 2-channel transmitter, 2-channel receiver + 10G Ethernet port.
MiniLinx-1000/2Rx+2Tx+10E	MiniLinx-1000 configured as a 3G 2-channel receiver, 2-channel transmitter + 10G Ethernet port.

TECHNICAL SPECIFICATIONS (Continued)

Ordering: (Continued)

12G versions with 10G Ethernet port:

MiniLinx-1000/8Tx+10E/12G	MiniLinx-1000 configured as a 12G 8-channel transmitter only + 10G Ethernet port.
MiniLinx-1000/8Rx+10E/12G	MiniLinx-1000 configured as a 12G 8-channel receiver only + 10G Ethernet port.
MiniLinx-1000/6Tx+2Rx+10E/12G	MiniLinx-1000 configured as a 12G 6-channel transmitter, 2-channel receiver + 10G Ethernet port.
MiniLinx-1000/6Rx+2Tx+10E/12G	MiniLinx-1000 configured as a 12G 6-channel receiver, 2-channel transmitter + 10G Ethernet port.
MiniLinx-1000/4Tx+4Rx+10E/12G	MiniLinx-1000 configured as a 12G 4-channel transmitter, 4-channel receiver + 10G Ethernet port.
MiniLinx-1000/4Rx+4Tx+10E/12G	MiniLinx-1000 configured as a 12G 4-channel receiver, 4-channel transmitter + 10G Ethernet port.
MiniLinx-1000/6Tx+10E/12G	MiniLinx-1000 configured as a 12G 6-channel transmitter only + 10G Ethernet port.
MiniLinx-1000/6Rx+10E/12G	MiniLinx-1000 configured as a 12G 6-channel receiver only + 10G Ethernet port.
MiniLinx-1000/4Tx+2Rx+10E/12G	MiniLinx-1000 configured as a 12G 4-channel transmitter, 2-channel receiver + 10G Ethernet port.
MiniLinx-1000/4Rx+2Tx+10E/12G	MiniLinx-1000 configured as a 12G 4-channel receiver, 2-channel transmitter + 10G Ethernet port.
MiniLinx-1000/4Tx+10E/12G	MiniLinx-1000 configured as a 12G 4-channel transmitter only + 10G Ethernet port.
MiniLinx-1000/4Rx+10E/12G	MiniLinx-1000 configured as a 12G 4-channel receiver only + 10G Ethernet port.
MiniLinx-1000/2Tx+2Rx+10E/12G	MiniLinx-1000 configured as a 12G 2-channel transmitter, 2-channel receiver + 10G Ethernet port.
MiniLinx-1000/2Rx+2Tx+10E/12G	MiniLinx-1000 configured as a 12G 2-channel receiver, 2-channel transmitter + 10G Ethernet port.

Version variations:

APD detector version	Add **/APD** to end of part number, e.g. MiniLinx-1000/8Tx/APD (not available in 12G version).
Optical Connector	Standard optical connector is an SC/PC type. For other connector types, add to end of part number **/FC** for FC/PC type; **/LC** for LC/PC type; or **/ST** for ST/PC type.
APC Fibre type	Standard optic fibre type is SC/PC. For Angle Physical Connector type (APC), add **/APC** to end of part number.
Example:	**MiniLinx-1000/4Tx+4Rx+10E/12G/APD/FC/APC** is a 12G version with 4 transmitters and 4 receivers plus a 10G Ethernet port fitted with APD detectors and terminated in an FC/APC style of connector.

Plug-in Ethernet SFPs:

SFP-1G-OPT-SM	1G Ethernet single-mode, MSA, generic optical transceiver SFP (LC/PC optical connectors);
SFP-1G-OPT-MM	1G Ethernet multi-mode, MSA, generic optical transceiver SFP (LC/PC optical connectors);
SFP-1G-RJ45	1G Ethernet Cat 5/6, MSA, generic electrical transceiver SFP (RJ45 connector).
SFP-10G-OPT-SM	10G Ethernet single-mode, MSA, generic optical transceiver SFP (LC/PC optical connectors);
SFP-10G-OPT-MM	10G Ethernet multi-mode, MSA, generic optical transceiver SFP (LC/PC optical connectors);
SFP-10G-RJ45	10G Ethernet Cat 5/6, MSA, generic electrical transceiver SFP (RJ45 connector).

Ethernet versions of the MiniLinx-1000 come with an Ethernet port suitable for third party MSA compliant 10G or 1G Ethernet SFP's. As there are a number of different manufacturers of Ethernet routers, and there is a large choice of Ethernet SFP transceivers available, the MiniLinx-1000 does not come with an Ethernet SFP as standard. We can offer a limited choice of generic Ethernet SFP's (sold separately, as above), but if it is wished to match a specific brand of router then it is recommended that these be sourced from a third party supplier.

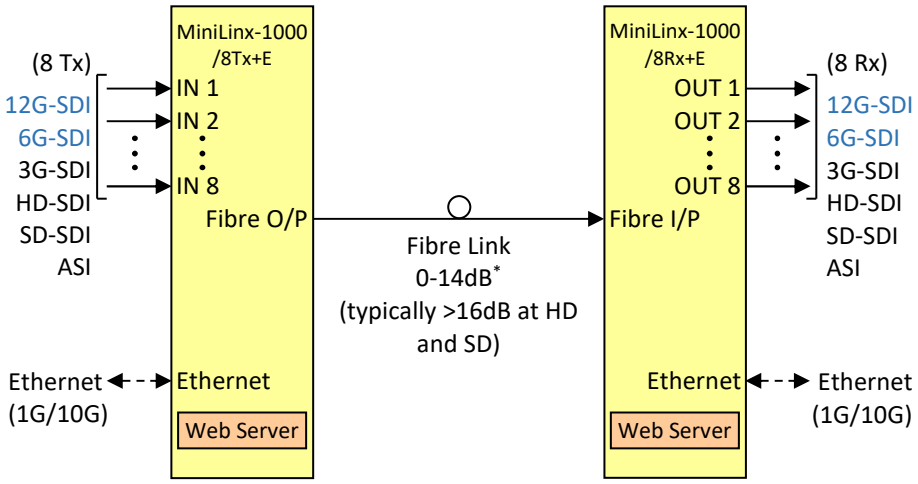
MiniLinx-1000/8Tx and MiniLinx-1000/8Rx

The **MiniLinx-1000/8Tx** and **MiniLinx-1000/8Rx** models are designed to operate together as a pair. They form an 8-channel single direction fibre link.

Bi-directional 1G or 10G Ethernet option available with the addition of **+E** or **+10E** to the part number.

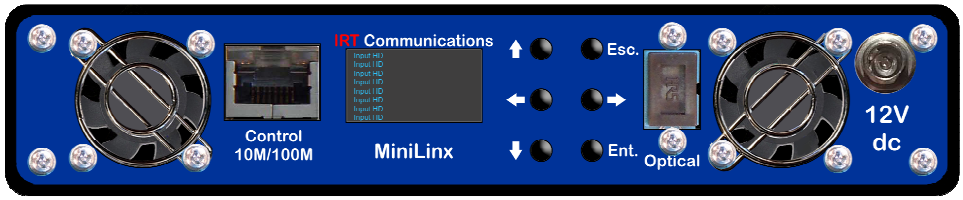
12G-SDI and 6G-SDI inputs and outputs applicable to 12G versions only, as designated by a **/12G** in the part number.

BLOCK DIAGRAM MiniLinx-1000/8Tx+E | MiniLinx-1000/8Rx+E SIGNAL PATH

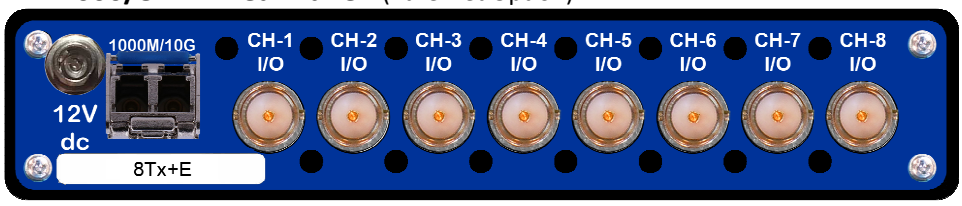


NOTE: * When fitted with 3G PIN detectors (standard).
5 to 23dB at 3G, typically >26dB at HD and SD, when fitted with optional 3G APD detectors.
0 to 10dB at 12G when fitted with optional **/12G** components.

MiniLinx-1000 Front Panel:

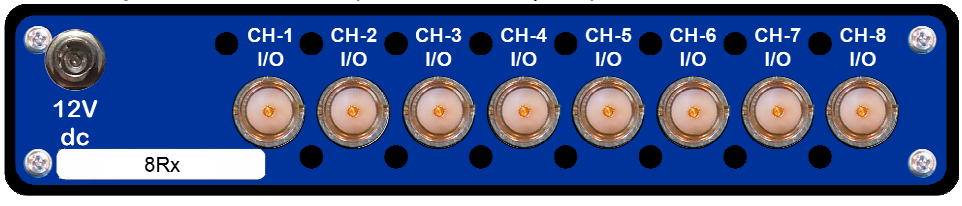


MiniLinx-1000/8Tx+E Rear Panel: (Ethernet Option)



Inputs

MiniLinx-1000/8Rx Rear Panel: (Non-Ethernet Option)



Outputs

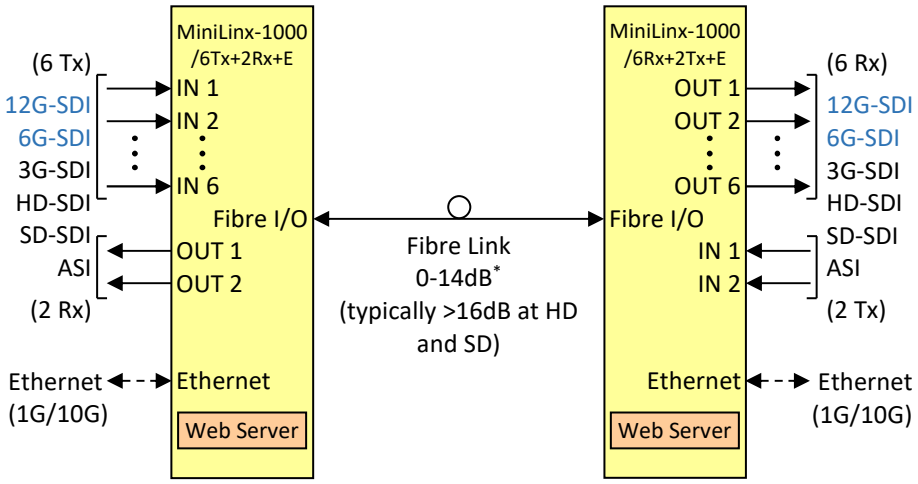
MiniLinx-1000/6Tx+2Rx and MiniLinx-1000/6Rx+2Tx

The **MiniLinx-1000/6Tx+2Rx** and **MiniLinx-1000/6Rx+2Tx** models are designed to operate together as a pair. They form a 6-channel forward, 2-channel reverse fibre link.

Bi-directional 1G or 10G Ethernet option available with the addition of **+E** or **+10E** to the part number.

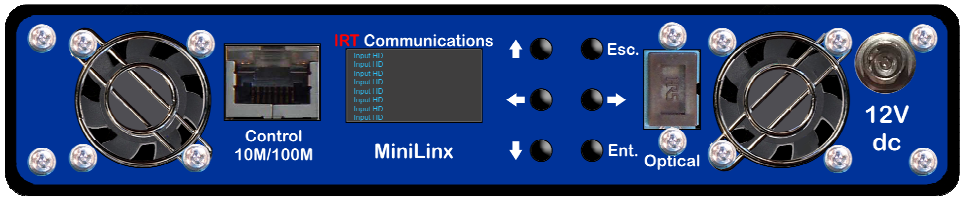
12G-SDI and 6G-SDI inputs and outputs applicable to 12G versions only, as designated by a **/12G** in the part number.

BLOCK DIAGRAM MiniLinx-1000/6Tx+2Rx+E | MiniLinx-1000/6Rx+2Tx+E SIGNAL PATH

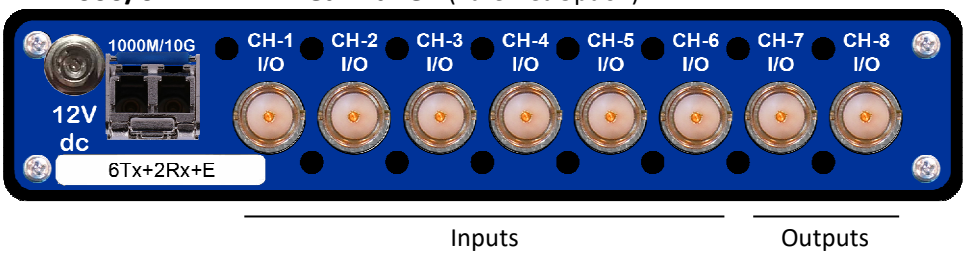


NOTE: * When fitted with 3G PIN detectors (standard).
5 to 23dB at 3G, typically >26dB at HD and SD, when fitted with optional 3G APD detectors.
0 to 10dB at 12G when fitted with optional **/12G** components.

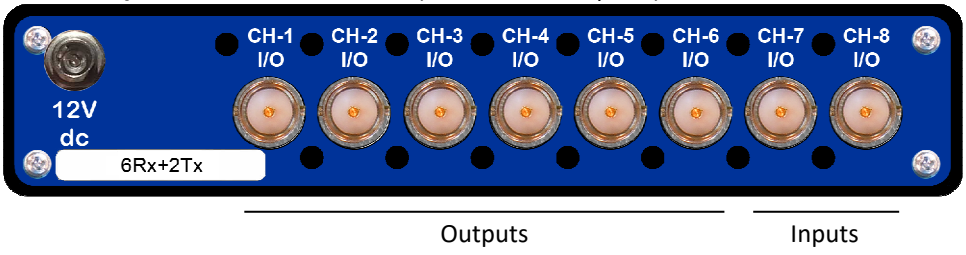
MiniLinx-1000 Front Panel:



MiniLinx-1000/6Tx+2Rx+E Rear Panel: (Ethernet Option)



MiniLinx-1000/6Rx+2Tx Rear Panel: (Non-Ethernet Option)



MiniLinx-1000/4Tx+4Rx and MiniLinx-1000/4Rx+4Tx

The **MiniLinx-1000/4Tx+4Rx** and **MiniLinx-1000/4Rx+4Tx** models are designed to operate together as a pair. They form a 4-channel forward, 4-channel reverse fibre link.

Bi-directional 1G or 10G Ethernet option available with the addition of **+E** or **+10E** to the part number.

12G-SDI and 6G-SDI inputs and outputs applicable to 12G versions only, as designated by a **/12G** in the part number.

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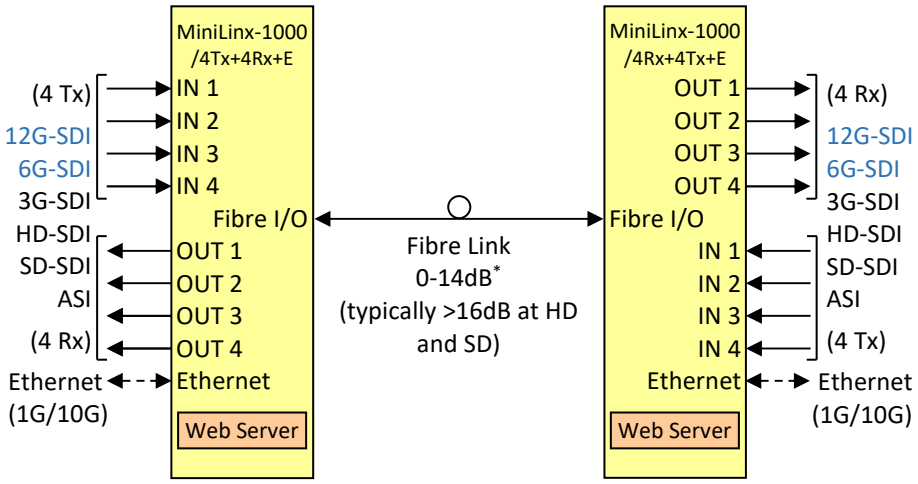
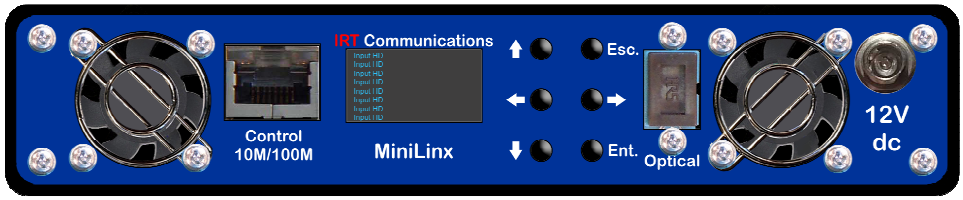
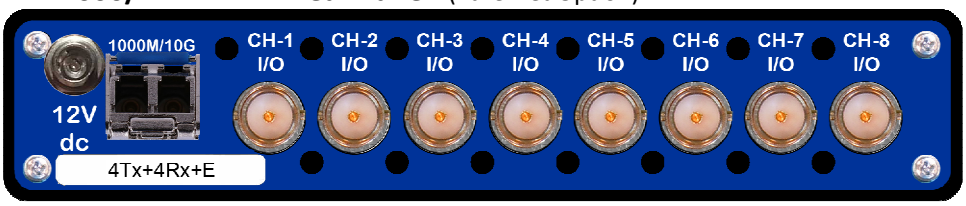


NOTE: * When fitted with 3G PIN detectors (standard).
5 to 23dB at 3G, typically >26dB at HD and SD, when fitted with optional 3G APD detectors.
0 to 10dB at 12G when fitted with optional **/12G** components.

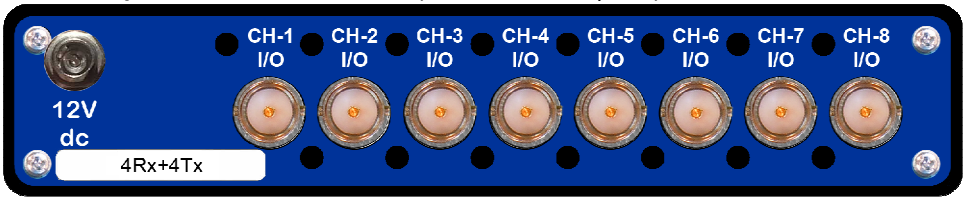
MiniLinx-1000 Front Panel:



MiniLinx-1000/4Tx+4Rx+E Rear Panel: (Ethernet Option)



MiniLinx-1000/4Rx+4Tx Rear Panel: (Non-Ethernet Option)



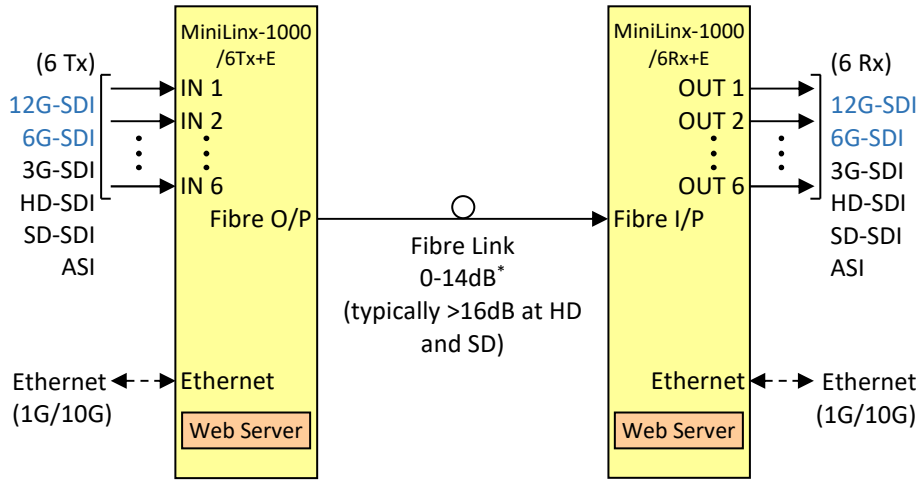
MiniLinx-1000/6Tx and MiniLinx-1000/6Rx

The **MiniLinx-1000/6Tx** and **MiniLinx-1000/6Rx** models are designed to operate together as a pair. They form a 6-channel single direction fibre link.

Bi-directional 1G or 10G Ethernet option available with the addition of **+E** or **+10E** to the part number.

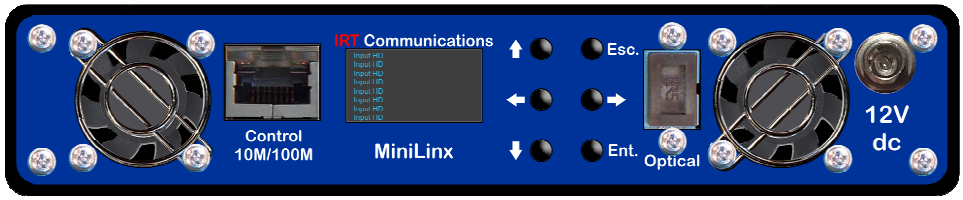
12G-SDI and 6G-SDI inputs and outputs applicable to 12G versions only, as designated by a **/12G** in the part number.

BLOCK DIAGRAM MiniLinx-1000/6Tx+E | MiniLinx-1000/6Rx+E SIGNAL PATH

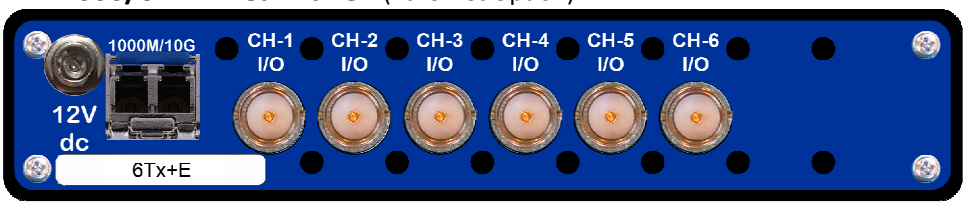


NOTE: * When fitted with 3G PIN detectors (standard).
5 to 23dB at 3G, typically >26dB at HD and SD, when fitted with optional 3G APD detectors.
0 to 10dB at 12G when fitted with optional **/12G** components.

MiniLinx-1000 Front Panel:

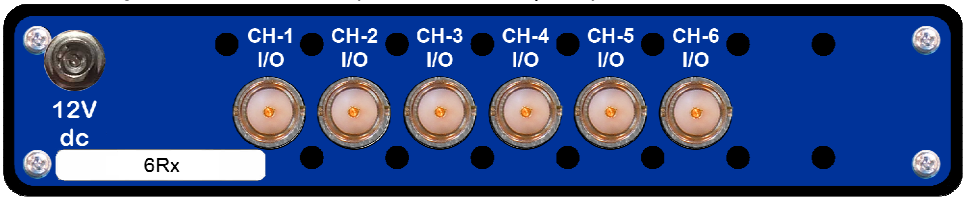


MiniLinx-1000/6Tx+E Rear Panel: (Ethernet Option)



Inputs

MiniLinx-1000/6Rx Rear Panel: (Non-Ethernet Option)



Outputs

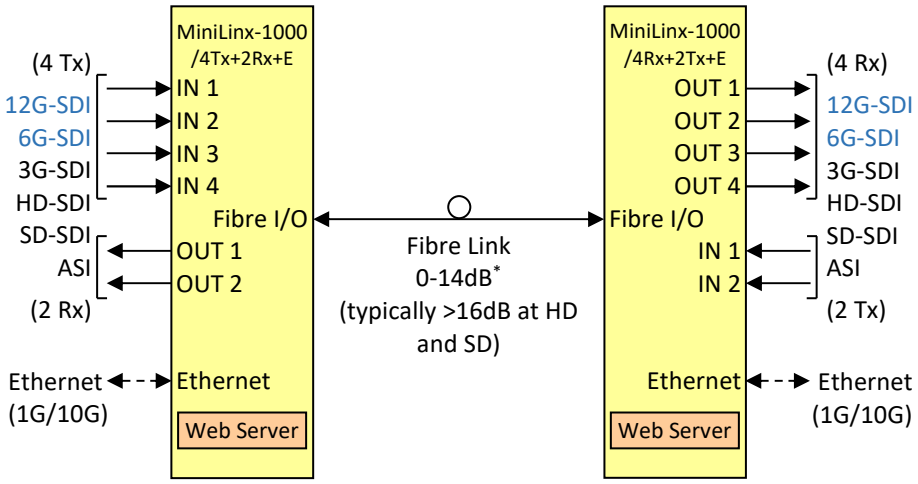
MiniLinx-1000/4Tx+2Rx and MiniLinx-1000/4Rx+2Tx

The **MiniLinx-1000/4Tx+2Rx** and **MiniLinx-1000/4Rx+2Tx** models are designed to operate together as a pair. They form a 4-channel forward, 2-channel reverse fibre link.

Bi-directional 1G or 10G Ethernet option available with the addition of **+E** or **+10E** to the part number.

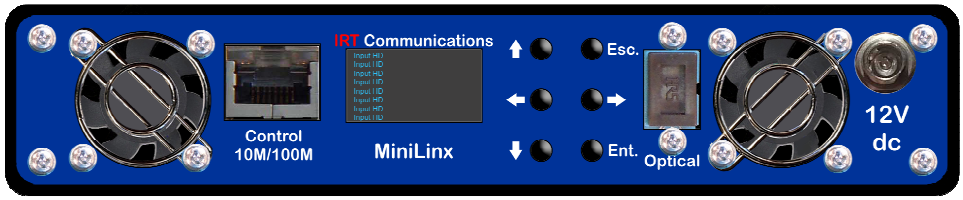
12G-SDI and 6G-SDI inputs and outputs applicable to 12G versions only, as designated by a **/12G** in the part number.

BLOCK DIAGRAM MiniLinx-1000/4Tx+2Rx+E | MiniLinx-1000/4Rx+2Tx+E SIGNAL PATH

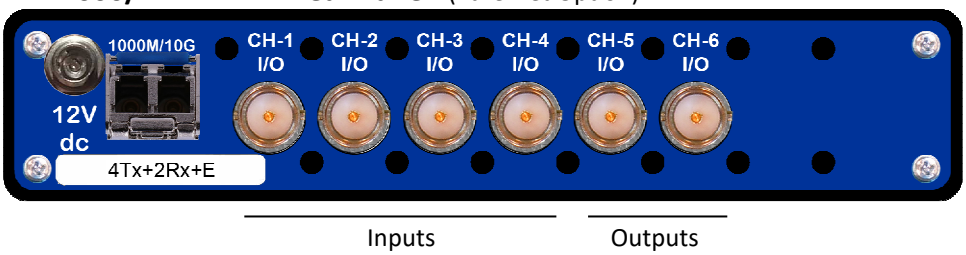


NOTE: * When fitted with 3G PIN detectors (standard).
5 to 23dB at 3G, typically >26dB at HD and SD, when fitted with optional 3G APD detectors.
0 to 10dB at 12G when fitted with optional **/12G** components.

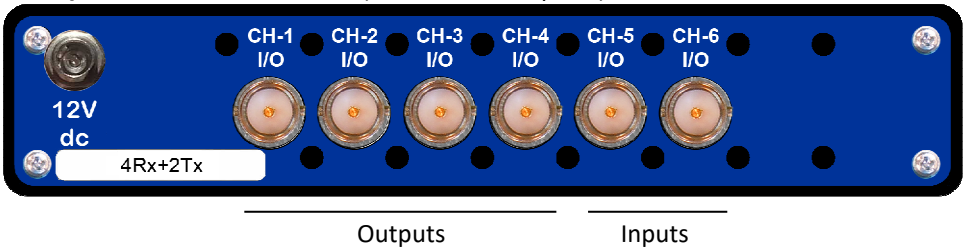
MiniLinx-1000 Front Panel:



MiniLinx-1000/4Tx+2Rx+E Rear Panel: (Ethernet Option)



MiniLinx-1000/4Rx+2Tx Rear Panel: (Non-Ethernet Option)



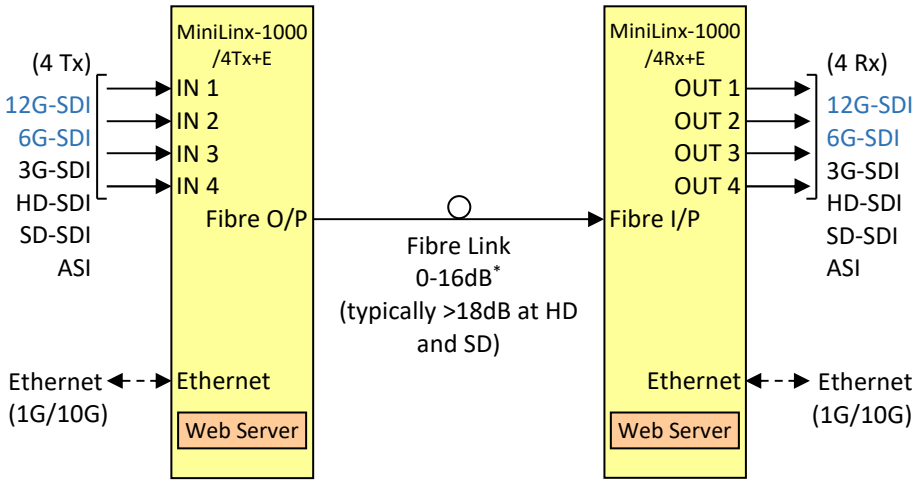
MiniLinx-1000/4Tx and MiniLinx-1000/4Rx

The **MiniLinx-1000/4Tx** and **MiniLinx-1000/4Rx** models are designed to operate together as a pair. They form a 4-channel single direction fibre link.

Bi-directional 1G or 10G Ethernet option available with the addition of **+E** or **+10E** to the part number.

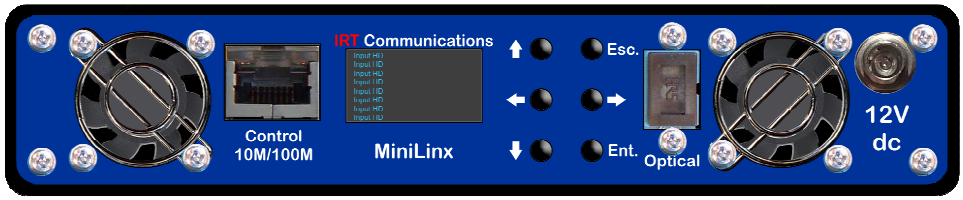
12G-SDI and 6G-SDI inputs and outputs applicable to 12G versions only, as designated by a **/12G** in the part number.

BLOCK DIAGRAM MiniLinx-1000/4Tx+E | MiniLinx-1000/4Rx+E SIGNAL PATH

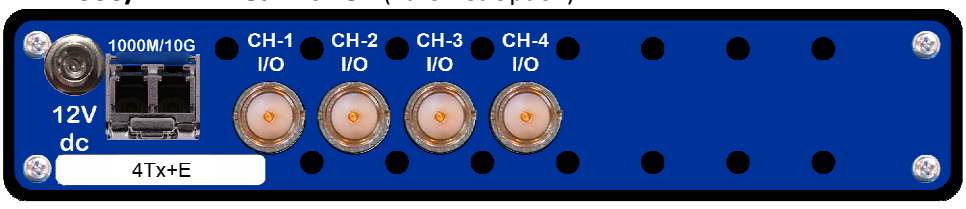


NOTE: * When fitted with 3G PIN detectors (standard).
7 to 25dB at 3G, typically >28dB at HD and SD, when fitted with optional 3G APD detectors.
0 to 12dB at 12G when fitted with optional **/12G** components.

MiniLinx-1000 Front Panel:

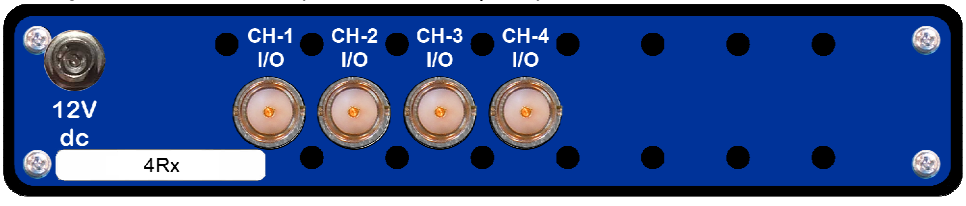


MiniLinx-1000/4Tx+E Rear Panel: (Ethernet Option)



Inputs

MiniLinx-1000/4Rx Rear Panel: (Non-Ethernet Option)



Outputs

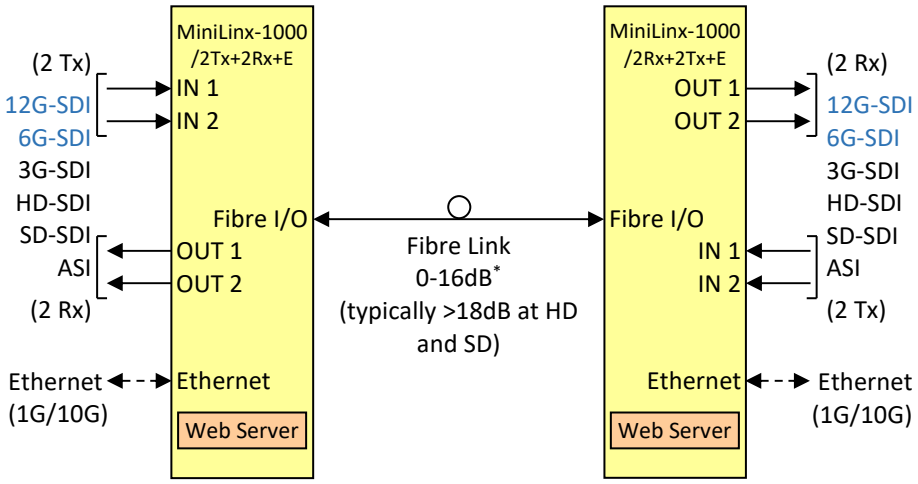
MiniLinx-1000/2Tx+2Rx and MiniLinx-1000/2Rx+2Tx

The **MiniLinx-1000/2Tx+2Rx** and **MiniLinx-1000/2Rx+2Tx** models are designed to operate together as a pair. They form a 2-channel forward, 2-channel reverse fibre link.

Bi-directional 1G or 10G Ethernet option available with the addition of **+E** or **+10E** to the part number.

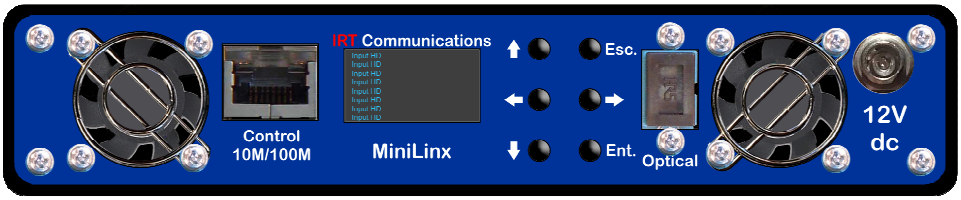
12G-SDI and 6G-SDI inputs and outputs applicable to 12G versions only, as designated by a **/12G** in the part number.

BLOCK DIAGRAM MiniLinx-1000/2Tx+2Rx+E | MiniLinx-1000/2Rx+2Tx+E SIGNAL PATH

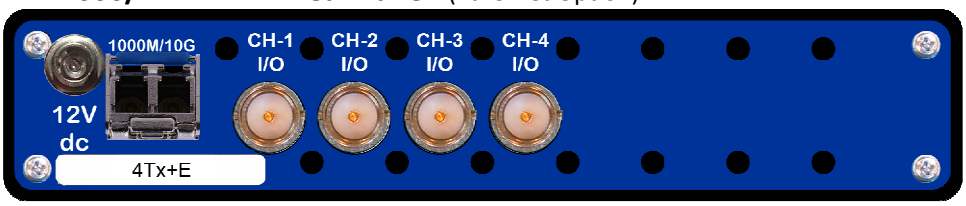


NOTE: * When fitted with 3G PIN detectors (standard).
7 to 25dB at 3G, typically >28dB at HD and SD, when fitted with optional 3G APD detectors.
0 to 12dB at 12G when fitted with optional **/12G** components.

MiniLinx-1000 Front Panel:

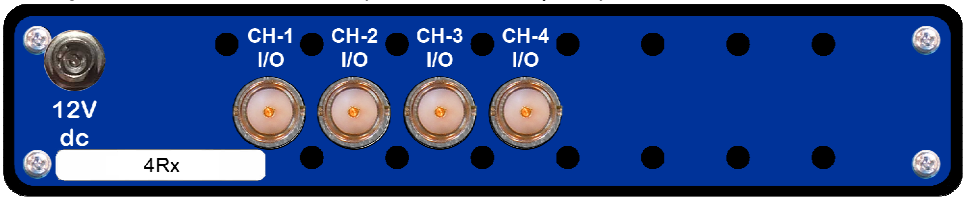


MiniLinx-1000/2Tx+2Rx+E Rear Panel: (Ethernet Option)



Inputs Outputs

MiniLinx-1000/2Rx+2Tx Rear Panel: (Non-Ethernet Option)



Outputs Inputs