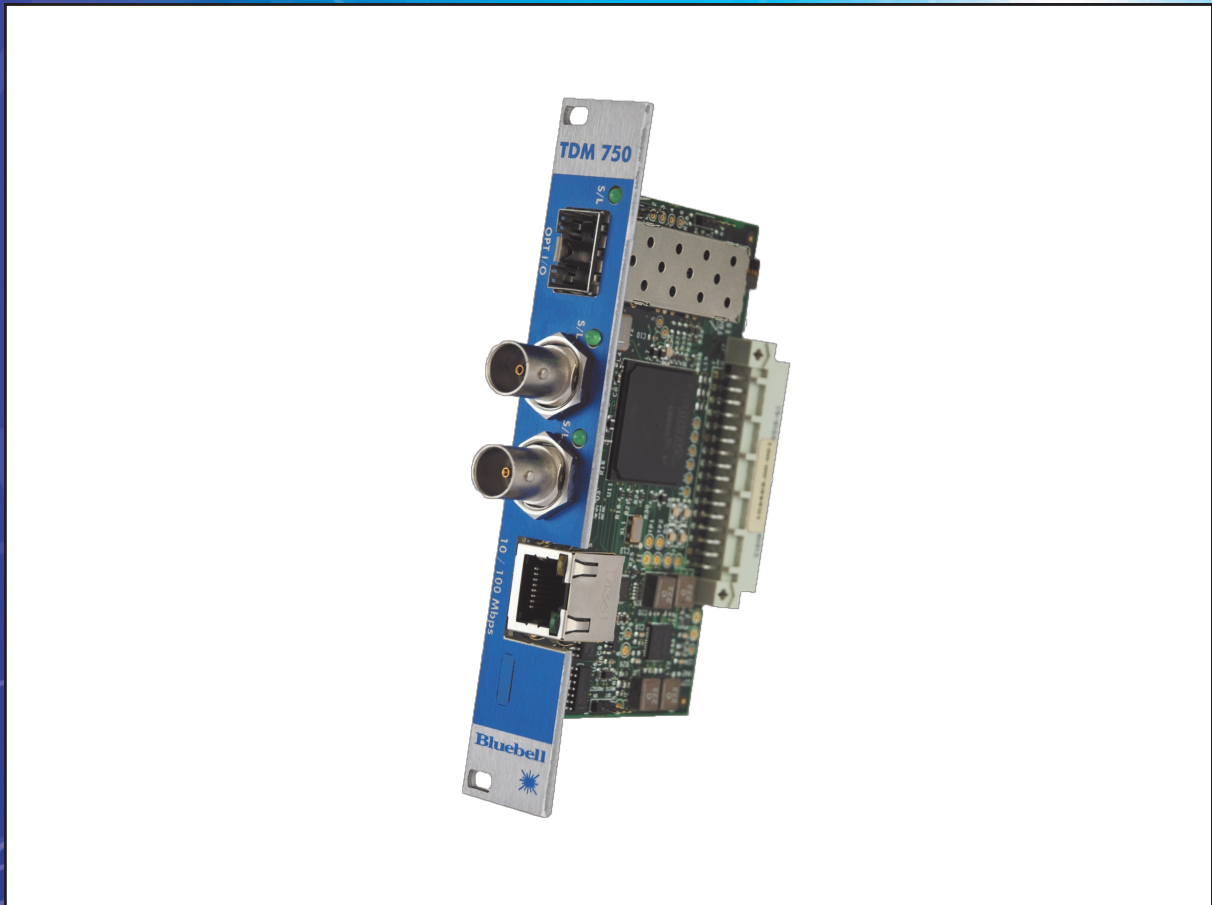


Bluebell*

BC Series Modular Fibre Optic Interface System



TDM-750

POV Camera Links

HD-SDI and 10/100 Ethernet

The TDM-750 system is designed to provide a compact, rugged and cost effective optical link between a remote POV (Point of View) Camera and an OB van or Control Room.

The unit provides cost-effective fibre connectivity for the growing range of compact and remote HD pan/tilt cameras used in concert halls and government chambers, making it possible to forego copper cabling and increase the distance between the cameras and the control room.

The link provides an HD/SD-SDI feed from the camera and a bidirectional 10/100 BaseT Ethernet data link for full control of the POV.

All signals are multiplexed and transported over two fibres for easy installation or field deployment.

The TDM-750 remote camera end can be supplied in a compact BC101 aluminium enclosure for easy mounting in-situ.

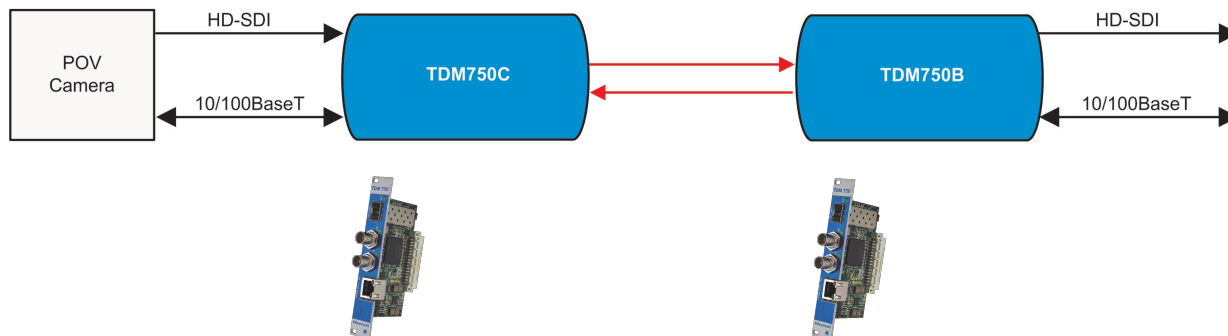
The TDM-750 base unit fits in a single slot of the standard Bluebell 19" rack frame allowing multiple cameras to feed into a central control room or truck.

Alternatively, both ends can be supplied in the standard BC Series card format for cost effective transport of HD and data whether in a studio or flyaway.

TDM-750 links are available in multimode, singlemode, single fibre, WDM and CWDM to suit any application.

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Schematic Diagram TDM-750 Link

Rear Panel
TDM-750

Specifications for each TDM-750 link

Electrical HD/SD Input

Connector	75 Ohm BNC per IEC 60169-8 Amendment 2
Standards	SMPTE 292M, SMPTE 259M, SMPTE 297M
Equalisation	Automatic to 200 m @ 1.485 Gb/s Automatic to 300 m @ 270 Mb/s
Return Loss	> 15 dB @ 1.485 Gb/s

Electrical HD/SD Output

Connector	75 Ohm BNC per IEC 60169-8 Amendment 2
Return Loss	> 15 dB @ 1.485 Gb/s
Polarity	Non inverting
Signal Level	800 mV +/- 10%
DC Offset	0 +/- 0.5 V
Jitter	<0.15 UI line equalised

Ethernet Input/Output

Connector	RJ45
Format	Full duplex 100Base-FX Data Transmission with 1-/100 MB/s half/full duplex auto-negotiation

Optical Input/Output

Wavelength	1310 nm, 1550 nm., CWDM
Optical Power	-2 dBm @ 1310 nm (typical) -2 dBm @ 1510 nm (typical) 0 dBm @ CWDM (typical)
Sensitivity	> -25.5 dBm @ 1.485 Mb/s > -26.0 dBm @ 270 Mb/s

General TDM-750 card specifications

Depth	60 mm
Width	20 mm 4HP
Height	129 mm 3RU
Weight	100 g
Operating Temp	-30 to +70 °C
Power	6 W
No. of slots	1

Conformance

EMI/RFI:	Complies with 89/336/EEC, EN55022B, EN61000-4-2, EN61000-4-4-(Level 2), EN61000-4-4FTB, EN61000-4-5, EN61000-4-11
Electrical:	Complies with EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4
Laser Safety:	Dependent on SFP fitted. Complies with Class 1 laser product
RoHS:	Complies with Directive 2002/95/EC
Warranty	5 years

Ordering Information

TDM-750C/LC	Remote end singlemode HD-SDI transmitter card plus 10/100 BaseT on 2 fibres.
TDM-750C/CWDM/LC	Remote end singlemode HD-SDI transmitter card plus 10/100 BaseT on 2 fibres.
TDM-750B/LC	Base end singlemode HD-SDI receiver card plus 10/100 BaseT on 2 fibres.
TDM-750B/CWDM/LC	Base end singlemode HD-SDI receiver card plus 10/100 BaseT on 2 fibres.

Single fibre versions available. Contact the Sales Office for information.

For Dedicated CWDM Tuned Laser Wavelengths to suit ITU Grid Spacing available - see CWDM Ordering Matrix

For all available enclosures and frames see section "Universal Chassis and Power Supplies".