

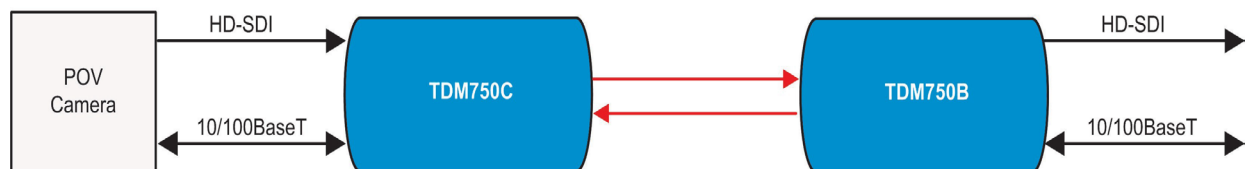
Deployable Optical Products for Outside Broadcast



Description:

- The **TDM-750 System** is a compact and rugged optical link designed to connect remote POV cameras to OB vans or control rooms.
- Ideal for HD pan/tilt cameras in venues like concert halls or government chambers, allowing longer distances without copper cabling.
- Provides an HD/SD-SDI video feed and a bidirectional 10/100 BaseT Ethernet link for full camera control.
- All signals are multiplexed over two fibres for simple installation and reliable field deployment.
- The remote unit is available in a compact **BC101** aluminium enclosure for easy mounting.
- The base unit fits into a single slot of the Bluebell 19" rack frame, supporting centralised integration of multiple cameras.
- Also available in BC Series card format for flexible use in studios or flyaway systems.
- Offered in multimode, singlemode, single fibre, WDM, and CWDM variants to suit any application.

TDM-750 Schematic Diagram:



Specifications

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 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-750B/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 all available enclosures and frames see section “Universal Chassis and Power Supplies”.

Bluebell

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