



COE X-NetTM OPT4 Modules



Digital video, high speed data & CD quality audio transmission product for singlemode or multimode optical fibre.

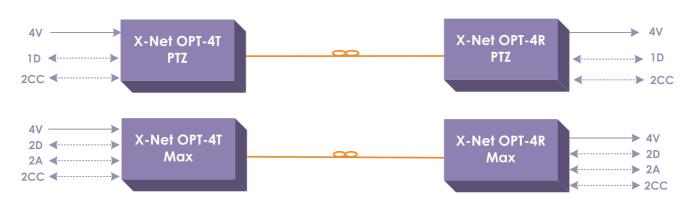
The COE X-NetTM optical modules provide transmission of 4 video channels, 2 duplex 128kbps data channels, 2 CD quality duplex audio channels and 2 contact closure channels on one singlemode or multimode optical fibre. X-Net has been designed specifically for the professional surveillance market where high performance, high quality and flexible product configuration is required and introduces numerous innovative features which have been previously unavailable in CCTV products.

System Features and Benefits

- 4, 10-bit encoded, uncompressed digital video channels
 - 4 times more sensitive to contrast changes than competing products. Ensures highest video quality under varying light and contrast conditions.
- Field upgradeable SFP lasers Modules can be field upgraded to CWDM or Long Haul version thus future proofing the investment.
- 18 wavelength CWDM Can be utilised to form an optical infeed system or fibre ring.
- Comprehensive network management features and SNMP support Enables remote administration of complex CCTV installations via a standard web browser or applications such as HP OpenView, thus reducing the maintenance costs.
- Ultra low loss LC connectors For reduced insertion loss and increased operation range.

- CD quality audio For high grade intercom or PA applications.
- High speed data channels Two independently configurable 128kbps data channels with support for RS232/422/485, easily configured via DIP switches.
- Flexible dual redundant power supply options Support for rack mounted or external 12V DC, 24V AC, 220V AC or 48V DC dual redundant power supplies.
- Comprehensive range of companion cards For cost effective system expansion (such as adding contact closures or supporting more telemetry devices) without the need for additional fibre.
 - Comprehensive 5 year warranty All X-Net modules are covered by a comprehensive 5 year warranty and have MTBF in excess of 100,000 hours.

Product Diagram



Sales Codes

X-Net OPT4T/R-VID	X-Net 4 x simplex video channel transmit/receive module for singlemode/multimode fibre, including 2×10^{-2} x simplex contact closure channels. Utilises 1 rack slot.
X-Net OPT4T/R-MM	X-Net Multimode only 4×1 simplex video channel transmit/receive module, including 1×1 duplex data, 1×1 duplex contact closure channel. Utilises 1×1 rack slot.
X-Net OPT4T/R-PTZ	X-Net $4 \times 10^{-2} \times 10^{$
X-Net OPT4T/R-MAX	X-Net 4 x simplex video channel transmit/receive module for singlemode/multimode fibre, including $2 \times 2 $

Performance and Specifications

Video		Audio	
Video Channels	4	Channels	Up to 2
Format	10 bit uncompressed	Bandwidth	20Hz to 20KHz
Channel bandwidth	6.5MHz min	Format	16bit PCM
Video Input level	1Vp-p with +3dB overload point	Input Impedance	600 Ohms
Video channel gain	1	Output Impedance	< 30 Ohms
Impedance	75 Ohms unbalanced	Distortion	< 4 %
Signal/Noise ratio	67 dB (Typical)	Input Level	0 dBm (2.2V p-p)
Diff Phase	0.5 ° (Typical)	System Gain	Unity
Diff gain	0.5 % (Typical)	Configuration	Balanced
K rating	<1 %		
Connector	75 Ohms BNC	Contact Closure	
(Meets overall requirements of RS250B medium haul)		Channels	Up to 2
Data		Direction	Simplex or Duplex
Channels	Up to 2 independent channels		
Rate	128kbps	Environmetal	
Format	RS 232/422/485 (DIP switch	Operating temperature	-40 °C to +74 °C
	configured)	Storage temperature	-40 °C to +85 °C
Optical			
Optical budget (dB)	20 (37dB available on request)	Mechanical	
Range on 50 or 62.5/125um	1 4km	Single slot variants	6HP x 4U x 167mm
multimode fibre (Km)		Double Slot variants	12HP x 4U x 167mm
Range on 9/125um	60 (>100km available on request)		
singlemode fibre (Km)		Power requirements	
Connector	LC	X-Net OPT4	+12VDC @400mA

MTBF

All Modules

EMC

EN55022 Class B, EN61000-3-2 Class A, EN61000-3-3, EN61000-4-2 6kV(C), 8kV (A), EN61000-4-3 10V/m, EN50204 20V/m, EN61000-4-6 10V, EN61000-4-4 2kV, EN61000-4-5 2kV, EN61000-4-8 50Hz & dc 100A/m, EN61000-4-9 300A/m, EN61000-4-11, EN60950-1:2002 + A1:2003, EN60825-2:2000



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>100,000 hours