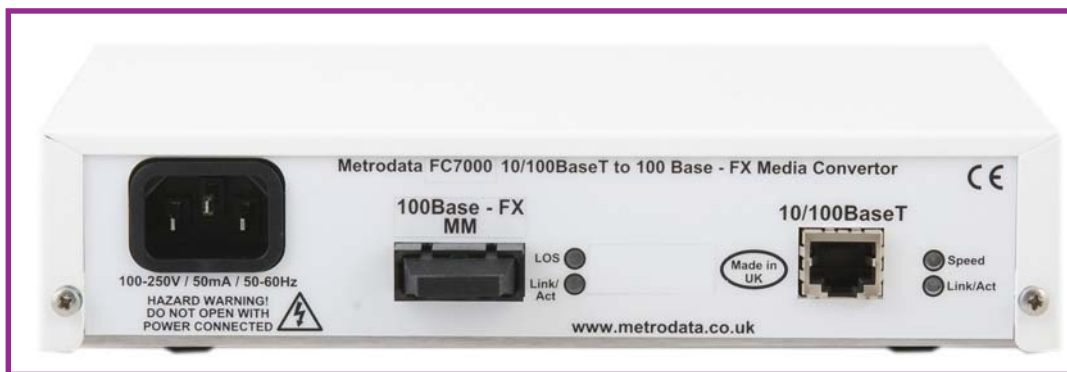


FC7x00

10/100BaseT to 100Base-FX Twisted Pair to Fibre Media Converter



- Media Conversion between 10/100BaseT and 100Base-FX
- Link State Forwarding
- Zero Touch, Plug and Play Interface
- LED status indications
- Compact unit with integral power supply
- Simple to install & maintain
- Rack mounting kits for 2 or 18 units available



FC7x00 rear view

The FC7x00 is a media converter aimed at the fast Ethernet arena. The FC7x00 offers a low cost conversion from twisted pair 10/100BaseT to 100Base-FX offering either multi-mode or single-mode fibre options. There are three members of the product family:

FC7000 Multi-mode fibre for distances up to 2 km

FC7100 Single-mode fibre, Short haul for distances up to 15 km

FC7200 Single-mode fibre, Long haul for distances up to 40 km

The FC7x00 is a switching media converter operating in store and forward mode. The FC7x00 supports auto-negotiation, and auto MDI/MDIX cross-over switching on the copper interface.

To ensure reliable operation, the FC7x00 supports Link State Forwarding, whereby a fault on the fibre will automatically force a link down on the copper port to indicate to the attached device that there is a link problem.

As standard, the 100Base-FX interface is presented using duplex SC fibre transceivers. Other options such as ST and FC/PC are available on request.

There is a choice of 100-250 VAC or -48 VDC integrated power supplies. Rack mounting accessory units are available to mount either 2 or 18 FC7x00 modules in a 19" telecomms rack.

FC7x00
datasheet



Specifications

100Base-FX Fibre Interface		Compliance & Approvals	
Port	IEEE802.3u 100Base-FX	Safety	EN60950, IEC-60825-1 (Class1 Laser Eye Safety)
Interface	Dual SC Single- mode	EMC	EN55022, EN50082
Wavelength	1300nm	Environment	
Data rate	125Mbps	Temp	0 - 50 deg C
100Base-FX Multi-mode		Humidity	0 - 95% RH, non-condensing
Tx power	-19 to -14dBm	Pressure	86-106 KPA
Max Rx input power	0 dBm	Storage Temperature	-40 to +100 deg C
Rx sensitivity	-30 to -14dBm	Power supply options	
Optical loss budget	11dB (2km)	-48VDC Supply	-36 to -72 VDC, 150 - 85mA
100Base-FX Short Haul Single-mode		100-250VAC	50-60 Hz, 60 - 25mA
Tx power	-15 to -8dBm	Power Consumption	6 watts approx when operating
Max Rx input power	-7dBm	Packaging	
Rx sensitivity	-31 to -7dBm	Type	Modem, 1U high without feet
Optical loss budget	16dB (15km)	Dimensions	W x Dx H mm
100Base-FX Long Haul Single-mode		Rackmount	202 x 132 x 44 (without feet)
Tx power	-5 to 0dBm	Tabletop	202 x 132 x 48 (with feet)
Max Rx input power	-7dBm	Order Codes FC7000 AC Models	
Rx sensitivity	-34 to 7dBm	Multi-mode	80-05-937
Optical loss budget	29dB (40km)	Single mode short haul	80-05-938
10/100BaseT Electrical Interface		Single mode long haul	80-05-939
Port	IEEE802.3u 10/100BaseT with auto-negotiation	Order Codes FC7000 DC Models	
Interface	RJ45 (Auto Crossover MDI/MDIX)	Multi-mode	80-21-937
Operating modes	Auto Negotiate, 10M,100M, Full Duplex, Half Duplex	Single mode short haul	80-21-938
LEDs	Link, Activity	Single mode long haul	80-21-939
		Rackmount kits Model No	
		1U 2 unit AC or DC	80-05-256
		6U 18 unit AC mains	80-05-250
		6U 18 unit DC supply	80-05-255

About Metrodata

Founded in 1989 and based near London, England, Metrodata is a leading designer and manufacturer of datacommunications hardware for Fixed line, Satellite, Enterprise and Carrier networks. Specialising in interoperability and interconnectivity, Metrodata offers a range of Standard, Niche and System Integrated type products. These include Media converters, Interface converters, Fibre converters, Ethernet extenders and ATM switching and Circuit emulation products. Other specialist products manage high data rates and clock sensitive applications to ensure higher network performance. For more information and data on Metrodata products, visit our web site at www.metrodata.co.uk

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