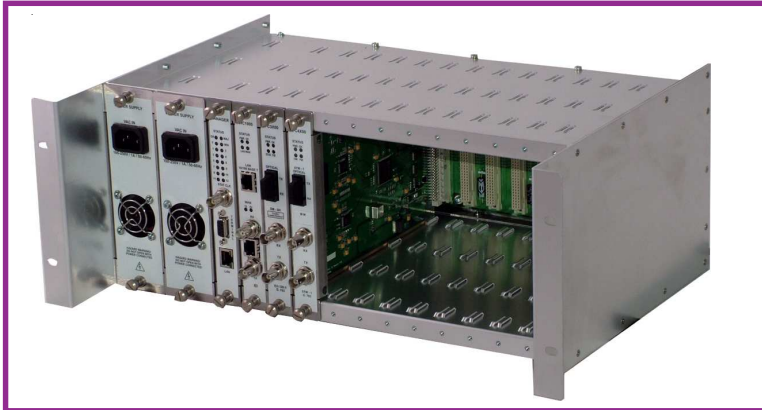
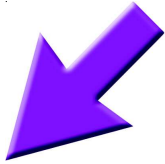


MetroRack Interface Modules FC4X00 Fibre Converter



MetroRack chassis

Metrodata's MetroRack presents you with a centralised management option which offers efficient use of limited rack space by enabling a high card density. The MetroRack is a 4U high, 19" rack based chassis unit which has 13 available slots that can accommodate the SNMP management module and a selection of I/O interface modules. Spare Modules can be resident in the chassis ready for immediate additional functionality or to provide 'in situ' spares. Ease of maintenance and the provisioning of new services is fulfilled through the modules and power supplies being "hot swap" compliant.



FC4X00 module



MetroRack FC4X00
datasheet

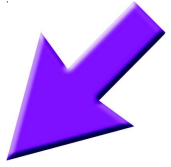
The FC4X00 provides interfacing between an STM-1/OC3 electrical interface and an STM-1/OC-3 fibre interface (single-mode or multi-mode). The FC4X00 is payload transparent.

The FC4X00 fibre interface uses an SC connector, whilst the electrical interface uses a pair of BNC connectors. The FC4X00 provides a clear STM-1/OC3 path over the fibre, which means that the signal can be either framed or unframed and all protocols are transported transparently.

For more data on Metrodata products, visit our website at www.metrodata.co.uk
Metrodata reserves the right to change specifications without notice.
Please check when ordering.

Part No: 79-03-098A





FC4X00 Specifications

Multi-mode Fibre Interface		STM-1 Electrical Interface	
Port	G.957	Port	G.703
Interface	Dual SC multi-mode 62.5/125 um	Interface	Dual BNC (75 ohm)
Bit Rate	155 Mbps +/- 15ppm	Line coding	CMI
Tx power	-14 to -19 dBm	Bit Rate	155 Mbps +/- 15ppm
Max Rx input power	-14 dBm	Barrier	Fully barriered per EN41003
Rx sensitivity	-14 to -30 dBm	Cable lengths	RG59 = 70m UR202 = 80m
Optical loss budget	-19-(-30) = 11dB	Compliance & Approvals	
MetroRack FC4000	Part No: 80-15-915	Safety	EN60950
Single-mode Short Haul Fibre Interface		EMC	EN55022, EN50082
Port	G.957	Environment & Power	
Interface	Dual SC single mode 8/125 um	Temp	0 - 50 deg C
Bit Rate	155 Mbps +/- 15ppm	Humidity	0 - 95% RH, non-condensing
Tx power	-8 dBm to -15 dBm	Pressure	86-106 kPa
Max Rx input power	-8 dBm	Power consumption	4.5 watts when operating
Rx sensitivity	-8 to -31 dBm	Packaging	
Optical loss budget	-15 - (-31) = 16 dB	Type	Card with end-connector
MetroRack FC4100	Part No: 80-15-916	Dimensions	W x Dx H mm
Single-mode Long Haul Fibre Interface		Overall	25 x 235 x 177
Port	G.957		
Interface	Dual SC single mode 8/125 um		
Bit Rate	155 Mbps +/- 15ppm		
Tx power	0 dBm to -5 dBm		
Max Rx input power	-8 dBm (may need attenuator)		
Rx sensitivity	-8 to -34 dBm		
Optical loss budget	-5 - (-34) =29 dB		
MetroRack FC42100	Part No: 80-15-917		

datasheet MetroRack FC4X00

About Metrodata

Founded in 1989 and based near London's Heathrow airport, 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 Systems Integration 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. Metrodata provides COTS products to the commercial, government and defence sectors, as well as developing turnkey products to specific customer requirements.

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