



- Centralised Management in a single rack solution
- Multiple I/O module options available in a single rack
- Compact 4U 19" rack spacing
- 12 slot chassis unit with SNMP management card
- 13 slot chassis unit without SNMP management card
- Alarm extension relays
- Hot-Swap for all modules & power supplies
- Cost effective solution to multiple interface requirements
- Redundant load sharing PSUs for increased resilience



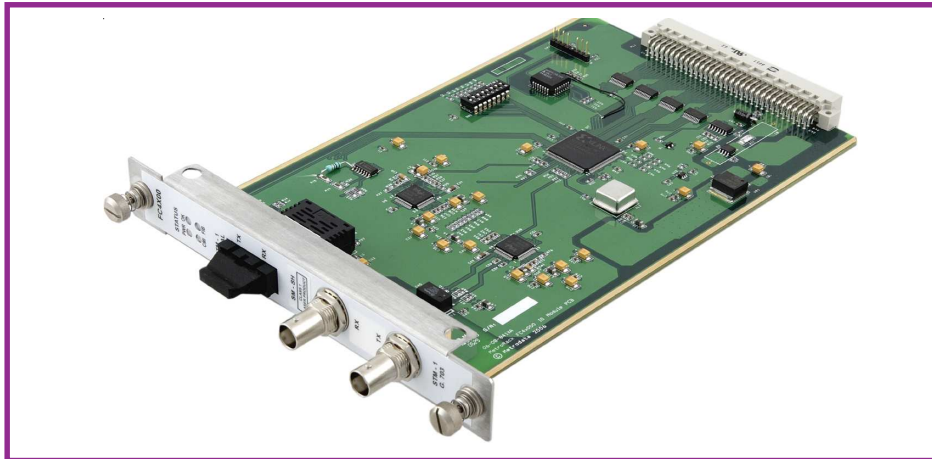
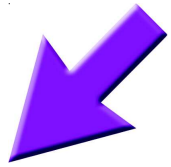
MetroRack chassis

Metrodata's MetroRack presents you with a centralised management option whilst offering increased density and thereby efficient use of limited rack space. 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.

The MetroRack has a single power supply which supports a full rack of cards but for increased resiliency the PSU's are load sharing when used in the optional 1+1 redundant configuration. For maximum MTBF the -48V DC PSU modules can be used. Typical operating power consumption is less than 75 watts.

The I/O Modules for MetroRack support the core standalone operation of each I/O module by simple bit switch configuration, but when the optional Management Module is fitted, a fully managed chassis including SNMP capability is realised.

Management of the MetroRack is either via the console port, or the management Ethernet port using SNMP or Telnet. SNMP version 1 is supported, including MIB-2 and Traps. SNMP traps are generated based on configurable alarms generated for any of the I/O Modules. TFTP download of software and configuration is also supported. To further future proof the MetroRack system, remote hardware upgrade of CPLD firmware is included. Security is offered by password protected Management Access whether via the console or Telnet. Performance statistics are available for all ports with data collection in 15 minute segments for a 24 hour period.



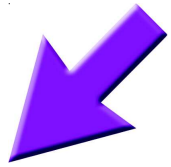
Typical Interface module

Specifications

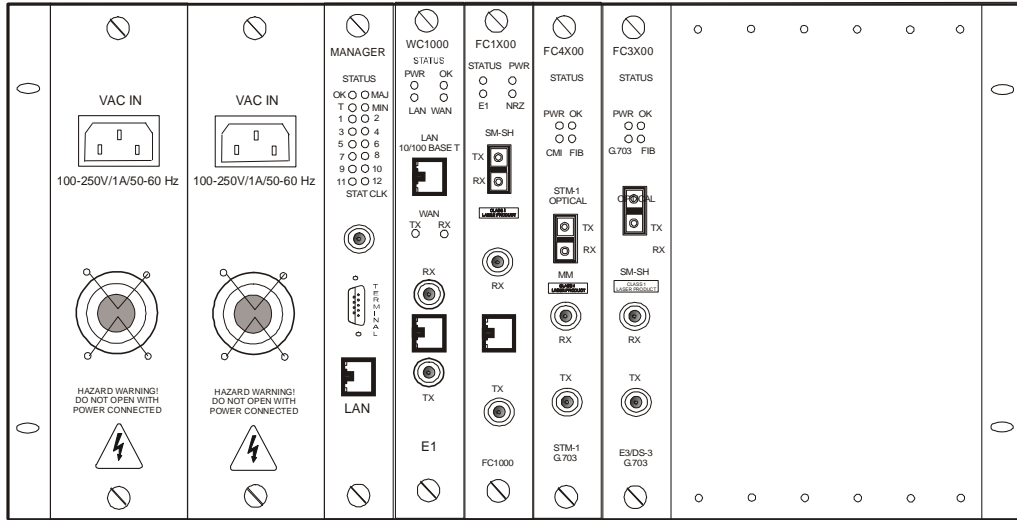
Configuration & Management		Dimensions & Capacity	
Type	Menu driven User interface	Dimensions	W x D x H mm
Access	Local console, Telnet, SNMP	19" Rackmount	484 x 251 x 178
Interface	V.24 Terminal port, Network port	Alarm Extension	9 way D-type on MetroRack rear panel
Security	Access by two level password	Interface cable entry	On module
System	Non-volatile configuration	Typical configuration	2 PSU modules 1 Management module, Up to 12 Interface modules
Environment		Power supply options	
Temp	0 - 50 deg C	-48VDC Supply	-36 to -72 VDC, 2 amps
Humidity	0 - 95% RH, non-condensing	AC Mains	85-250 VAC, 50/60 Hz, 1 amp, IEC connector
Pressure	86-106 kPa	Power Consumption	Up to 75 watts when operating
Compliance & Approvals			
Safety	EN60950		
EMC	EN55022, EN50082		

Ordering information

MetroRack Part Numbers	240VAC PSU	-48VDC PSU	Configuration Comment
MetroRack Unmanaged chassis with 1 PSU unit	80-15-001	80-15-011	19" rackmountable chassis with 1 PSU module installed, 1 spare PSU slot and 13 slots for I/O modules
MetroRack Unmanaged chassis with 2 PSU units	80-15-002	80-15-012	19" rackmountable chassis with 2 PSU modules installed and 13 slots for I/O modules
MetroRack Managed chassis with 1 PSU unit	80-15-021	80-15-031	19" rackmountable chassis with 1 PSU module and the management module installed, with 12 slots for I/O modules
MetroRack Managed chassis with 2 PSU units	80-15-022	80-15-032	19" rackmountable chassis with 2 PSU modules, and the management module installed, with 12 slots for I/O modules
PSU Module	80-15-110	80-15-115	100-250 VAC 50/60 Hz, 1 amp, or -48VDC 3 amp (occupies one double-width PSU module slot)
PSU Slot Blanking plate	80-15-105		Blanking plate for empty power supply slot if only 1 PSU fitted
I/O Slot Blanking plate	80-15-107		Blanking plate for empty single-width interface card slots
Management Module	80-15-120		Optional module, must be installed in chassis slot 0
I/O modules (see separate Datasheets)			12 user I/O modules with SNMP Management module fitted 13 user I/O modules without SNMP Management module fitted



Rack Schematic



The two left hand slots are occupied by the power supply modules - each module occupying one double-width slot. If only one power supply is fitted, then a blanking plate should be fitted over the second space for EMC compliance. The second power supply slot is not available for I/O modules. If an SNMP Manager module is required, it must occupy the first single width slot (slot 0). The subsequent slots provide space for up to 12 I/O modules, or 13 can be fitted if an SNMP manager module is not deployed. Any unoccupied slots should have blanking plates fitted in order to preserve EMC compliance.

Interface Modules for the MetroRack

Interface Module Type	Model No	Module Function
Electrical Signal Conversion	DC1000	X.21 to Unframed E1 G.703 Interface Converter
	DC3000	X.21 to Fractional E1 G.703 Interface Converter
Fibre Conversion	FC1000	E1 G.703 Electrical to Optical Interface Converter
	FC3000	E3/DS-3 Electrical to Optical Interface Converter
	FC4000	STM-1/OC-3 Electrical to Optical Interface Converter
LAN Extension	WC1000	10/100 BaseT over E1 G.703 LAN Extender

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. For more information and data on Metrodata products, visit our web site at www.metrodata.co.uk

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 Metrodata reserves the right to change specifications without notice.
 Please check when ordering.

Part No: 79-03-081E