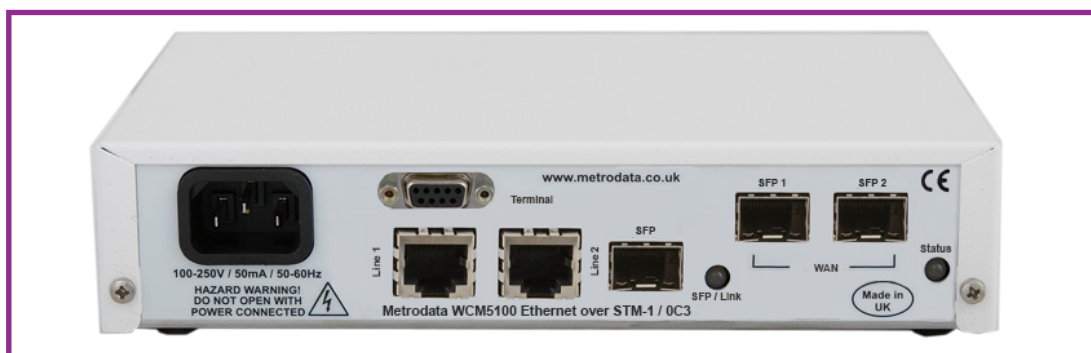


MetroCONNECT WCM5100

Managed LAN Extender over SDH STM-1 or Sonet OC-3

- LAN extension over STM1 (SDH) or OC3 (Sonet) WAN services
- Two RJ45 plus one SFP flexible media port, offering local Switched Ethernet connections up to 1Gbps, with Ethernet Jumbo Frame Support (10k byte)
- Ethernet EoSDH encapsulation to VC4 or NxVC3, with support for single or dual-redundant WAN links
- Fully manageable via Serial Terminal (user-friendly context-sensitive menu system), Telnet/SSH and SNMP. TACACS+ for secure Management authentication
- Carrier Ethernet OAM protocol support, for Connectivity Management
- 802.1q VLAN support with prioritisation based on 802.1p and/or DSCP markers
- Bandwidth control per Ethernet Port and Priority queue (also for Broadcast traffic), enabling differentiated traffic QoS
- Internal test traffic generator, with multiple remote loop-back options for WAN-circuit verification
- Integral auto-sensing AC (110V-250V), -48VDC or dual -48VDC PSUs
- 'Zero-touch' installation with remote proxy management option for ease-of-use
- Link Loss alarm Forwarding
- Optional IU rack-mounting kit



WCM5100 Managed LAN Extender over STM-1 or OC-3

The WCM5100 is a member of the MetroCONNECT family, offering Managed LAN extension over STM1 (SDH) or OC3 (Sonet) Wide Area Networks. The WCM5100 supports two RJ45 LAN interfaces. A further LAN interface is provided via an SFP port, offering the flexibility of an RJ45 or a wide variety of fibre interface options. Over-sized Ethernet frames, of up to 2048 bytes, are supported.

Ethernet VLANs are supported, either by pass-through of existing Tags or by the Push and Pop of Tags on ingress and egress at Ethernet ports. Pre-embedded prioritisation schemes can be honoured, or alternatively prioritisation can be over-written under Management control. Bandwidth limitation per port and per prioritisation can be implemented, providing a mechanism for differentiated QoS for multiple services. Management is offered via each of; Serial Terminal connection, Telnet and SNMP. Management security is offered via SSH and TACACS+ authentication. Support is also offered for 'Carrier Ethernet' Link OAM Management (IEEE802.3ah), enabling status information to be shared with connected equipment if required.

In line with all other members of the MetroCONNECT Ethernet Service Delivery family, the WCM5100 supports Metrodata's 'zero-touch' installation process, eliminating the need for skilled resources for remote-site installations.

Ethernet traffic is encapsulated by the WCM5100, for transmission over the WAN link, using a number of optional schema, including support for the ITU-T G.7041 standard 'Generic Framing Procedure' (GFP). The product can be used for both simple Point-to-Point networks, using two WCM5100 products linked via either terrestrial or wireless (e.g. microwave) WAN services, or as part of a Point-to-MultiPoint topology, using the MetroCONNECT MCI2000 Ethernet Service Delivery Chassis, or third-party aggregation platforms.

Specifications

WCM5100 Subscriber Port Specs		WCM5100 WAN Port Specs	
Port	2x 10/100/1000baseT port with auto-negotiation and Jumbo frame support	Mode	SDH STM-I or Sonet OC-3
Interface	RJ45 (Auto Crossover MDI/MDIX)	Interface	Dual SFP ports each with dual LC connectors
Operating modes	Auto Negotiate, 10M, 100M, 1000M	Framing	STM-I or OC-3
LEDs	Link Activity, Speed	Line Coding	NRZ
1000Base-X Fibre Interface		Bit Rate	155.52Mbps +/- 15ppm
SFP Port	IEEE802.3z 1000Base-X	Mapping	GFP
Interface	Dual LC	Encapsulation	VC4 EoSDH, Up to 3xVC3 EoSDH,
SFP 1000Base SX		SFP 155Mbps Multimode	
Wavelength	850nm Multimode	Wavelength	1300nm multimode
Max Rx input power	0 dBm	TX Power	-22.5 to -14 dBm
Rx sensitivity	-17 to 0 dBm	Max RX input power	-14 dBm
Optical loss budget	7.5dB (550m)	Rx sensitivity	-31 to -14 dBm
Tx power	-9.5 to -3 dBm	Optical loss budget	8.5db (2km)
SFP 1000Base LX		SFP 155Mbps Singlemode	
Wavelength	1300nm Singlemode	Wavelength	1300nm singlemode
Max Rx input power	0 dBm	TX Power	-15 to -8 dBm
Rx sensitivity	-17 to 0 dBm	Max RX input power	-8 dBm
Optical Loss budget	9.5dB (10km)	Rx sensitivity	-28 to -8 dBm
Tx power	-9.5 to -3 dBm	Optical loss budget	13db (10km)
Compliance & Approvals		Environment	
Safety	EN60950, IEC-60825-I (Class I Laser Eye Safety)	Temp	0 to 50 deg C
EMC	EN55032	Humidity	0 - 95% RH, non condensing
Power supply		Pressure	86 - 100 KPa
-48VDC	-40 to -72VDC, 125 - 65mA	Storage Temp	-40 to 100 deg C
AC Mains	100 - 250 VAC 50 - 60 Hz, 60 - 25mA	Packaging & Dimensions (WxDxH mm)	
Power consumption	8 watts approx when operating	Type	Modem, 1U high without feet
		Rackmount	202 x 132 x 44 (without feet)
		Tabletop	202 x 132 x 48 (with feet)

Order codes

Product	100 - 250 VAC	-48VDC	Dual -48VDC
WCM5100	80-70-547	80-71-547	80-72-547
1U 2 Unit Rackmount Kit	80-05-256		
1Gbps MM 550m 850nm *	80-31-011		
1Gbps SM 10km 1300nm *	80-31-031		
100/155Mbps MM 2km 1300nm *	80-30-021		
100/155Mbps SM 10km 1300nm *	80-30-031		

Note *: Other SFP transceiver types also available