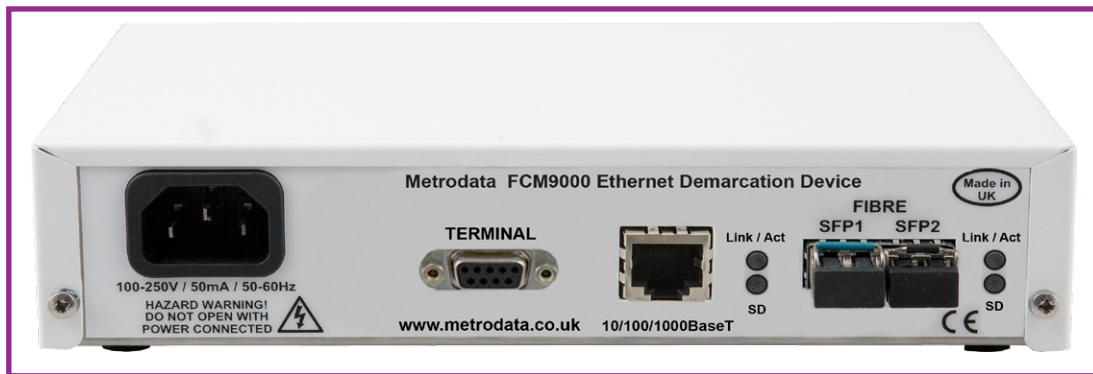


- 10/100/1000Base copper & fibre Ethernet services delivered via fibre network infrastructure
- 802.3ah, 802.1ag OAM support for service integrity checking
- 802.1q VLAN support (pass-through and tag switching), 802.1p priority queuing
- Link State Forwarding, RSTP, Jumbo Frame Support (10k byte)
- SSH & TACACS+ for secure authentication
- 'Zero-Touch' installation facility with advanced IP proxy management option
- Compact unit with robust metal housing and integral power supply
- Auto-sensing power supply (100-250V AC or -48VDC versions), 12-24V DC on request
- Designed and manufactured in the UK



**FCM9000 10/100/1000 Base Ethernet Demarcation Device**

The FCM9000 is a highly manageable Ethernet Demarcation Device (EDD) offering low cost 10/100/1000Base copper & fibre Ethernet demarcation and service delivery via fibre infrastructure. Carrier Ethernet OAM functionality means that customer service levels can be assured.

The FCM9000 supports 802.3ah Link OAM (EFM) and 802.1ag Service OAM Connectivity Fault Management (CFM) which means that the Ethernet service can be managed and monitored right up to the customer delivery point. The development roadmap includes support for IEEE802.3ad with LACP, Y.1731 and advanced wired SLA measurement and verification.

In line with all other members of the MetroCONNECT Ethernet Service Delivery family, the FCM9000 supports Metrodata's 'zero-touch' installation process, minimising both on-site installation time and the Engineering skills required. Our unique 'IP proxy over OAM' functionality reduces on-site installation to a 'plug and play' exercise, simply checking that Ethernet link-up LEDs indicate correct physical connectivity. Comprehensive Telnet and/or SNMP remote management is available to the device via an IP proxy process across Layer-2 OAM traffic from an MCI2000 Service Delivery chassis or another MetroCONNECT family device at the network centre, with no need for layer-3 (IP) parameters to be assigned locally. If required, individual configuration can be subsequently downloaded via TFTP.

The FCM9000 operates in store and forward mode and supports RSTP and the transmission of 10k byte Jumbo frames. The FCM9000 supports auto-negotiation and auto MDI/MDIX cross-over switching on the copper interface.

To ensure quick fault isolation, the FCM9000 supports Link State Forwarding, whereby a network fault will automatically force a link down on the user port to indicate to the attached device that there is a link problem.

The FCM9000 is available in a choice of 100-250V AC or -48V DC integrated power supplies, although a 12V-24V DC version is also available on request. 19" rack mounting units are available.

### Specifications

Dual 1000Base-X Fibre Interface		Compliance & Approvals	
Port	IEEE802.3z 1000Base-X SFP	Safety	EN60950, IEC-60825-1 (Class I Laser Eye Safety)
Interface	Dual LC	EMC	EN55022, EN50082
10/100/1000BaseT Electrical Interface		Environment	
Port	10/100/1000BaseT port with auto-negotiation and Jumbo frame support	Temp	0 to 50 deg C
Interface	RJ45 (Auto Crossover MDI/MDIX)	Humidity	0 - 95% RH, non condensing
Operating modes	Auto Negotiate, 10M, 100M, 1000M Full Duplex, Half Duplex	Pressure	86 - 100 KPa
LEDs	Link Activity, Speed	Storage Temp	-40 to 100 deg C
Traffic Management & OAM		Power supply	
VLANS	4096 (IEEE 802.1Q customer-tagged) stacked VLANS (Q-in-Q service provider tagged) 3 Ethernet Virtual Circuits (EVC)	-48 VDC	-36 to -72 VDC, 125 - 65mA
Tag management	1-tag (push/pop) for c-tag or s-tag	AC Mains	100 - 250 VAC 50 - 60 Hz, 60 - 25mA
QOS	802.1p (4 queues) policing per port (client & network ports) shaping per port (client & network ports)	Power consumption	6 watts approx when operating
OAM	802.3ah Link Management (EFM) 802.1ag Connectivity Fault Management (CFM)	Packaging	
Alarm response	Link loss forwarding from network port	Type	Modem, 1U high without feet
		Dimensions (W x D x H mm)	
		Rackmount	202 x 132 x 44 (without feet)
		Tabletop	202 x 132 x 48 (with feet)

### Order codes

Product	100 - 250 VAC	-48 VDC
FCM9000 (No SFP)	80-70-933	80-71-933
1U 2 Unit Rackmount Kit	80-05-256	80-05-256
6U 18 unit Rackmount Kit	80-05-250	80-05-255

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