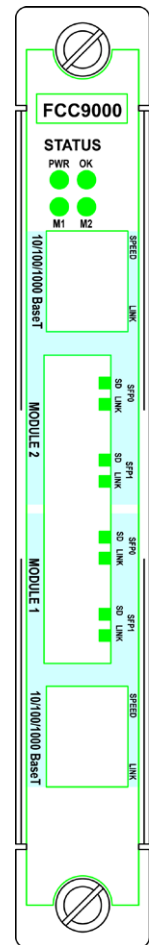
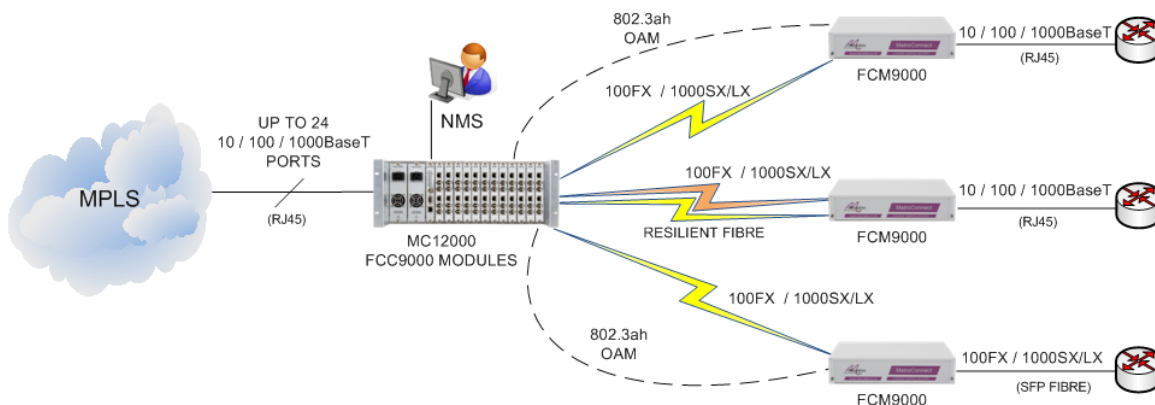


- Dual channel EDD/NID Functionality
- 10/100/1000BaseT Copper Port
- Dual SFP socket supporting:
 - 1000Base-X
 - 100Base-FX
- Optional:
 - Fibre to Copper
 - Fibre to Fibre
 - Resilient Fibre to Copper
- OAM Support: IEEE802.3ah
- Link Loss Forwarding
- Jumbo Frame Support (10kbyte)
- “Hot Swap” IO Module
- Store and Forward Media Conversion
- 802.1q VLAN support (pass-through and tag switching)
- 802.1p priority queuing (4 queues)
- RSTP support



datasheet FCC9000 Module

The FCC9000 is an I/O module for use in the MetroCONNECT MC12000 system. The FCC9000 occupies a single slot in the MC12000 chassis and is fully “Hot Swap” compliant to ease maintenance and the provisioning of new services.

Each Module supports dual EDD (Ethernet Demarcation Device) functionality and supports both Copper to Fibre and Fibre to Fibre operating modes. Link Loss transparency / forwarding is supported.

Optionally, the FCC9000 may be enabled to support OAM link management according to IEEE802.3ah. When OAM is disabled, the EDD operates in a fully transparent media conversion mode. The future roadmap includes support for IEEE802.1ag and Y.1731 OAM standards.

The SFP ports auto sense the SFP type inserted, based on the Module Definition and configure the port for 100BaseFX or 1000Base-X operation.

The FCC9000 supports auto-negotiation, and auto MDI/MDIX cross-over switching on the copper interface.

Specifications

Dual 1000Base-X Fibre Interface per channel		Compliance & Approvals	
Port	2x IEEE802.3z 1000Base-X SFP	Safety	EN60950, IEC-60825-1 (Class I Laser Eye Safety)
Interface	Dual LC	EMC	EN55022, EN50082
SFP 1000Base SX		Environment	
Wavelength	850nm Multimode	Temp	0 to 50 deg C
Max Rx input power	0 dBm	Humidity	0 - 95% RH, non condensing
Rx sensitivity	-17 to 0 dBm	Pressure	86 - 100 KPa
Optical loss budget	7.5dB (550m)	Storage Temp	-40 to 100 deg C
Tx power	-9.5 to -3 dBm		
SFP 1000Base LX			
Wavelength	1300nm Singlemode		
Max Rx input power	0 dBm		
Rx sensitivity	-17 to 0 dBm		
Optical Loss budget	9.5dB (10km)		
Tx power	-9.5 to -3 dBm		
10/100/1000BaseT Electrical Interface per channel			
Port	10/100/1000BaseT with auto-negotiation and Jumbo frame support		
Interface	RJ45 (Auto Crossover MDI/MDIX)		
Operating modes	Auto Negotiate, 10M, 100M, 1000M		
	Full Duplex, Half Duplex		
LEDs	Link Activity, Speed		

Order codes

Product	Model Number
FCC9000	80-16-933
1000BaseSX SFP	80-31-011
1000BaseLX SFP	80-31-031
100BaseF MM	80-30-021
100BaseF SM	80-30-031

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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Metrodata reserves the right to change specifications without notice.

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