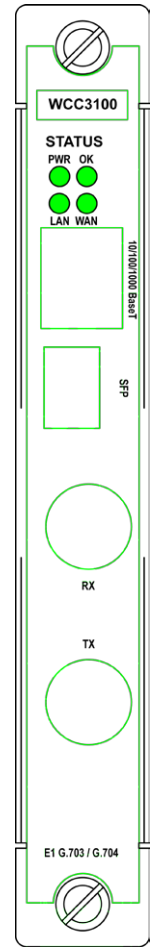
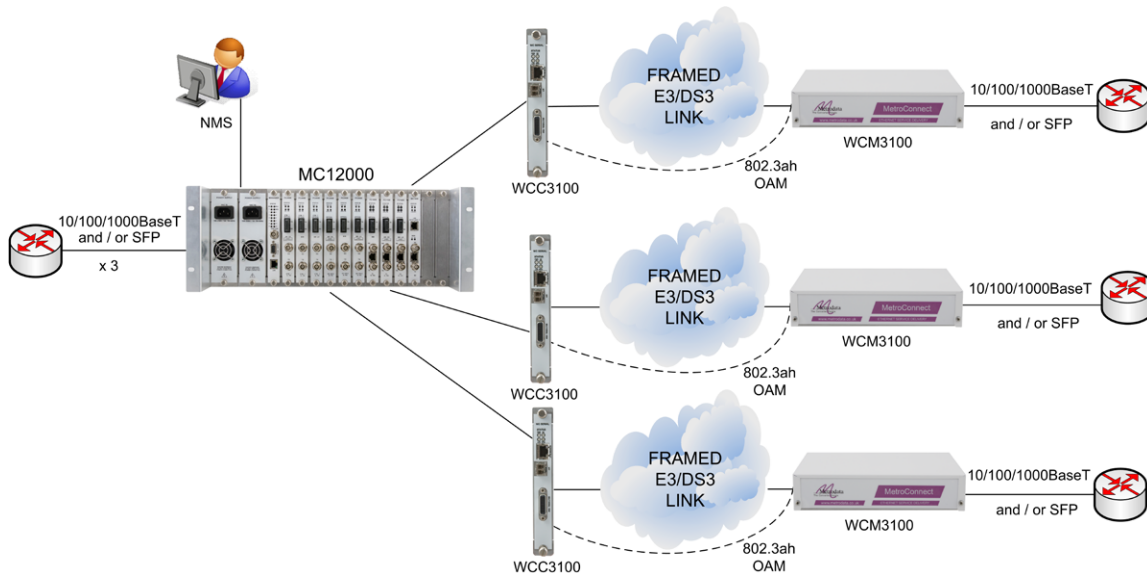


- LAN extension over Clear-Channel or Framed E3/DS3 services
- 10/100/1000BaseT Copper Port
- SFP socket supporting:
 - 1000Base-X
 - 100Base-FX
- “Hot Swap” IO Module
- Link State Forwarding
- Jumbo Frame Support (10kbyte)
- 802.3ah OAM support
- 802.1q VLAN support (pass-through and tag switching)
- 802.1p priority queuing (4 queues)
- RSTP Support



datasheet WCC3100 Module

The WCC3100 is an I/O module for use in the MetroCONNECT MC12000 system. The WCC3100 occupies a single slot in the MC12000 chassis and is fully “Hot Swap” compliant to ease maintenance and the provisioning of new services.

The WCC3100 module can be used for Ethernet Service Provision, offering LAN extension over a Clear-Channel or Framed E3/DS3 service. The WCC3100 supports auto-negotiation, and auto MDI/MDIX cross-over switching on the copper LAN interface. A further LAN interface is provided via an SFP port, offering either an additional RJ45 connection or a variety of multi-mode and single-mode fibre interface options. This port auto-senses the SFP type inserted, and configures for 100BaseFX or 1000Base-X operation.

Link State Forwarding is supported, whereby faults on the uplink port will automatically force a link down on the user ports to indicate to the attached devices that there is a link problem. The transmission of Jumbo frames is supported, with internal packet buffering used to smooth out bursty traffic without packet loss.

Remote management can be performed using Ethernet OAM, SNMP or Telnet, in conjunction with the Management Module of the MCI2000 system.

The WCC3100 supports VLAN in two ways. In normal mode, VLAN tagged frames are passed unmodified; however when VLAN support is enabled, the WCC3100 supports VLAN tag-based switching whereby access may be controlled using VLAN IDs.

Specifications

WCC3100 Subscriber Port Specs		WCC3100 WAN Port Specs	
Port	10/100/1000baseT with auto-negotiation and Jumbo frame support	Mode	E3 or DS3
Interface	RJ45 (Auto Crossover MDI/MDIX)	Presentation	E3 75 ohm dual mini BNC, DS3 75 ohm dual mini BNC
Operating modes	Auto Negotiate, 10M, 100M, 1000M Full Duplex, Half Duplex	Line Rate	E3 34.368Mbps DS3 44.736Mbps
LEDs	Link Activity, Speed	Timing	Internal or loop
1000Base-X Fibre Interface		Encapsulation	HDLC, GFP G.8040
SFP Port Interface	IEEE802.3z 1000Base-X Dual LC	Compliance & Approvals	
SFP 1000Base SX		Safety	EN60950, IEC-60825-1 (Class I Laser Eye Safety)
Wavelength	850nm Multimode	EMC	EN55022, EN50082
Max Rx input power	0 dBm	Environment	
Rx sensitivity	-17 to 0 dBm	Temp	0 to 50 deg C
Optical loss budget	7.5dB (550m)	Humidity	0 - 95% RH, non condensing
Tx power	-9.5 to -3 dBm	Pressure	86 - 100 KPa
SFP 1000Base LX		Storage Temp	-40 to 100 deg C
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		

Order codes

Product	Model Number
WCC3100	80-16-543
1000BaseSX SFP	80-31-011
1000BaseLX SFP	80-31-031