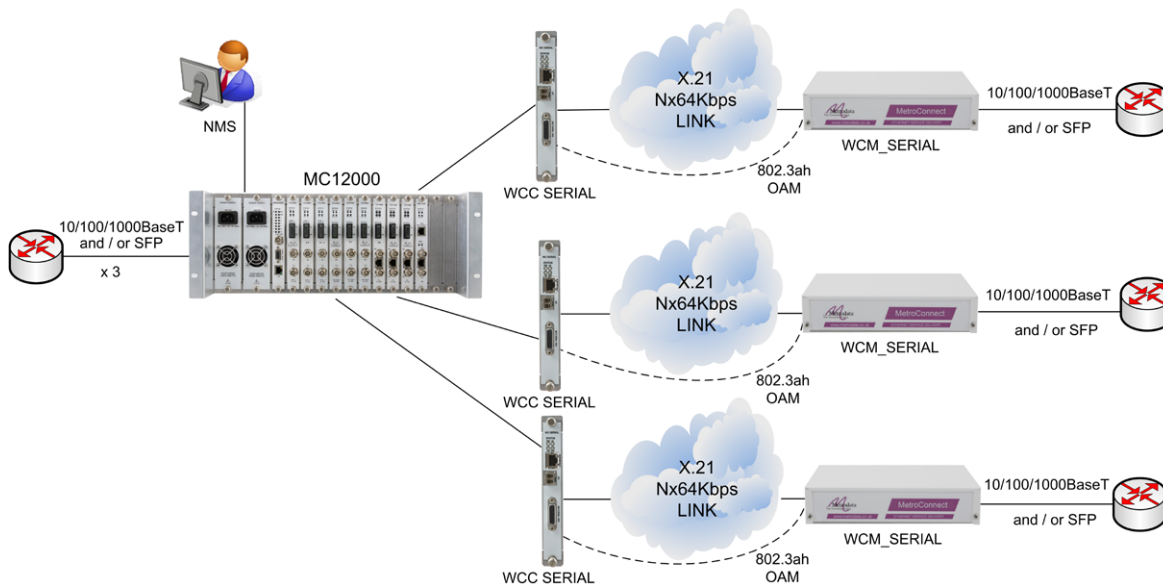


- LAN extension over Serial services
- 10/100/1000BaseT Copper Port
- SFP socket supporting:
  - 1000Base-X
  - 100Base-FX
- “Hot Swap” IO Module
- Link State Forwarding
- Jumbo Frame Support (10kbyte)
- 802.3ah OAM support
- 802.1q VLAN support (pass-through and tag switching)
- 802.1p priority queuing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



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

The WCC\_Serial module can be used for Ethernet Service Provision, offering LAN extension over a Serial service. The WCC\_Serial 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.

# MetroCONNECT WCC\_Serial

## Managed LAN Extender over Serial Services Module

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

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

### Specifications

WCC_Serial Subscriber Port Specs		WCC_Serial WAN Port Specs	
Port	10/100/1000baseT with auto-negotiation and Jumbo frame support	Interface	Cisco compatible Serial
Interface	RJ45 (Auto Crossover MDI/MDIX)	Presentation	60 way Female D Type
Operating modes	Auto Negotiate, 10M, 100M, 1000M	Line Rate	15Mbps (max)
LEDs	Full Duplex, Half Duplex Link Activity, Speed	Cabling Examples	Use CABX21-MT for connection to X.21 NTU Use CABV35-MT for connection to V.35 NTU
1000Base-X Fibre Interface		Compliance & Approvals	
SFP Port	IEEE802.3z 1000Base-X	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		

### Order codes

Product	Part Number
WCC_Serial	80-16-545
1Gbps MM 550m 850nm	80-31-011
1Gbps SM 10km 1300nm	80-31-031