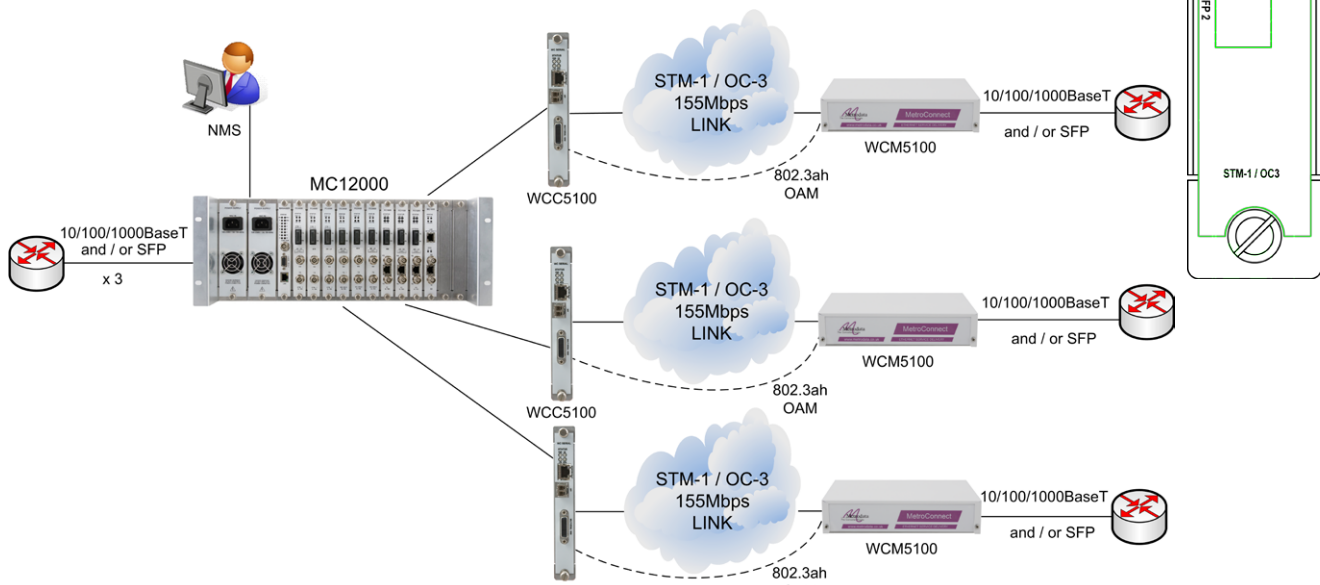


MetroCONNECT WCC5100

Managed LAN Extender over SDH STM-I / Sonet OC-3 Module

- LAN extension over SDH STM-I and Sonet OC-3 services (with resilient SFPs)
- VC4 EoSDH, Up to 3xVC3 EoSDH, Up to 3xE3/DS3 EoPoS encapsulations supported
- 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 WCC5100 is an I/O module for use in the MetroCONNECT MC12000 system. The WCC5100 occupies a single slot in the MC12000 chassis and is fully “Hot Swap” compliant to ease maintenance and the provisioning of new services.

The WCC5100 module can be used for Ethernet Service Provision, offering LAN extension over SDH STM-I / Sonet OC-3. The WCC5100 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. Dual SFP ports are also provided for the STM-I / OC-3 port offering flexibility of optical connection.

Link State Forwarding is supported, whereby faults on both of the uplink ports 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.

datasheet **WCC5100 Module**

MetroCONNECT WCC5100

Managed LAN Extender over SDH STM-1 / Sonet OC-3 Module

Remote management can be performed using Ethernet OAM,SNMP or Telnet, in conjunction with the Management Module of the MC12000 system.

The WCC5100 supports VLAN in two ways. In normal mode, VLAN tagged frames are passed unmodified; however when VLAN support is enabled, the WCC5100 supports VLAN tag-based switching whereby access may be controlled using VLAN IDs.

Specifications

WCC5100 Subscriber Port Specs		WCC5100 WAN Port Specs	
Port	10/100/1000baseT with auto-negotiation and Jumbo frame support	Mode	SDH STM-1 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 Full Duplex, Half Duplex	Framing	STM-1 or OC-3
LEDs	Link Activity, Speed	Line Coding	NRZ
		Bit Rate	155.52Mbps +/- 15ppm
		Encapsulation	VC4 EoSDH, Up to 3xVC3 EoSDH, Up to 3xE3/DS3 EoPoS
1000Base-X Fibre Interface			
SFP Port	IEEE802.3z 1000Base-X		
Interface	Dual LC		
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)
		Environment	
		Temp	0 to 50 deg C
		Humidity	0 - 95% RH, non condensing
		Pressure	86 - 100 KPa
		Storage Temp	-40 to 100 deg C

Order codes

Product	100 - 250 VAC
WCC5100	80-16-547
SFP	Part Number
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