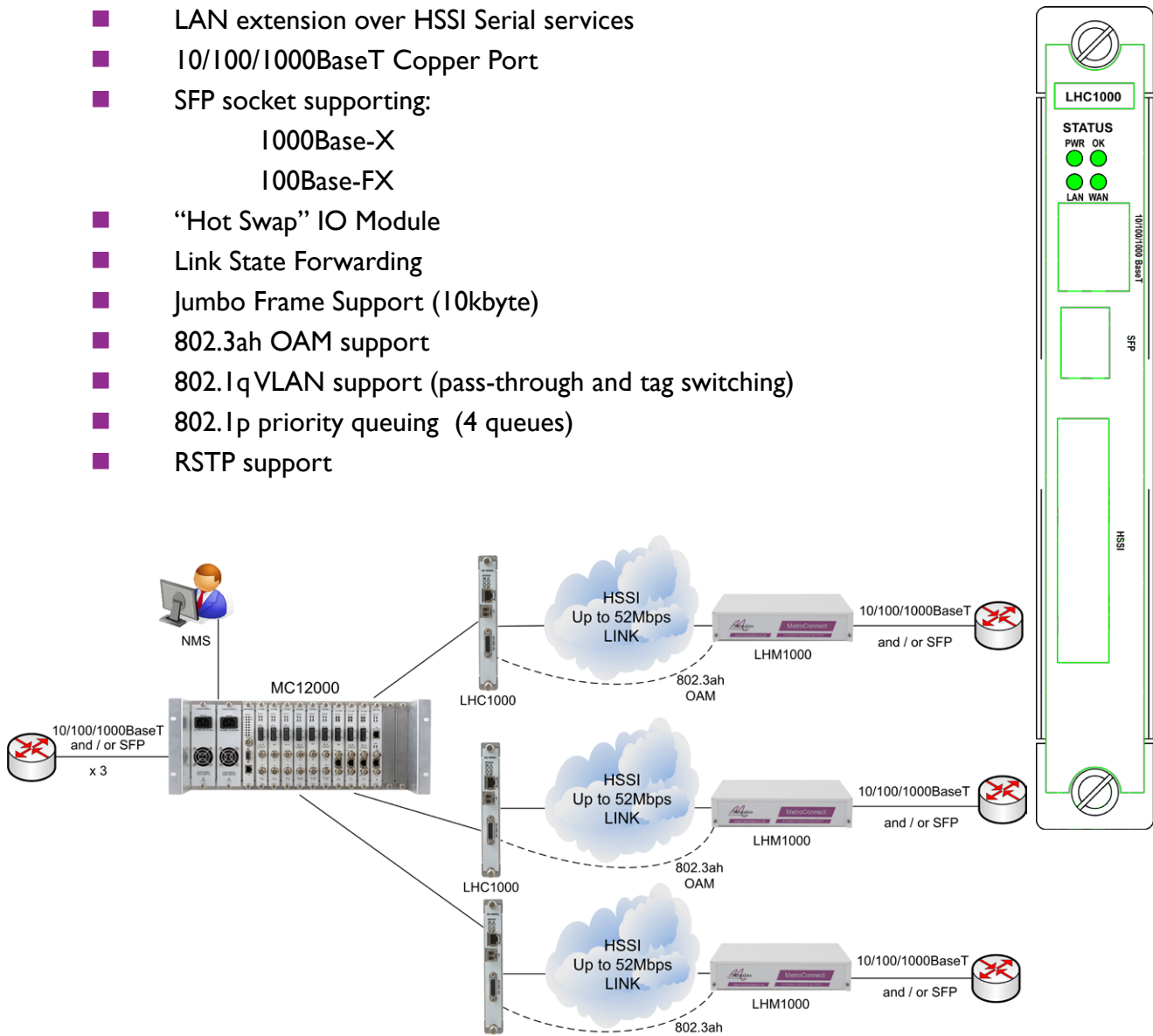


- LAN extension over HSSI Serial services
- 10/100/1000BaseT Copper Port
- SFP socket supporting:
  - 1000Base-X
  - 100Base-FX
- “Hot Swap” IO Module
- Link State Forwarding
- Jumbo Frame Support (10kbyte)
- 802.3ah OAM support
- 802.1q VLAN support (pass-through and tag switching)
- 802.1p priority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



The LHC1000 is an I/O module for use in the MetroCONNECT MC12000 system. The LHC1000 occupies a single slot in the MC12000 chassis and is fully “Hot Swap” compliant to ease maintenance and the provisioning of new services.

The LHC1000 module can be used for Ethernet Service Provision, offering LAN extension over a HSSI service. The LHC1000 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 an uplink fault 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 LHC1000 supports VLAN in two ways. In normal mode, VLAN tagged frames are passed unmodified; however when VLAN support is enabled, the LHC1000 supports VLAN tag-based switching whereby access may be controlled using VLAN IDs.

### Specifications

LHC1000 Subscriber Port Specs		LHC1000 WAN Port Specs	
Port	10/100/1000baseT with auto-negotiation and Jumbo frame support	Interface	HSSI
Interface	RJ45 (Auto Crossover MDI/MDIX)	Presentation	50 way AMP
Operating modes	Auto Negotiate, 10M, 100M, 1000M Full Duplex, Half Duplex	Line Rate	52Mbps (max)
LEDs	Link Activity, Speed	<b>Compliance &amp; Approvals</b>	
<b>1000Base-X Fibre Interface</b>		Safety	EN60950, IEC-60825-1 (Class I Laser Eye Safety)
SFP Port	IEEE802.3z 1000Base-X	EMC	EN55022, EN50082
Interface	Dual LC	<b>Environment</b>	
<b>SFP 1000Base SX</b>		Temp	0 to 50 deg C
Wavelength	850nm Multimode	Humidity	0 - 95% RH, non condensing
Max Rx input power	0 dBm	Pressure	86 - 100 KPa
Rx sensitivity	-17 to 0 dBm	Storage Temp	-40 to 100 deg C
Optical loss budget	7.5dB (550m)		
Tx power	-9.5 to -3 dBm		
<b>SFP 1000Base LX</b>			
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	100 - 250 VAC
LHC1000	80-16-544
SFP	Part Number
1 Gbps MM 550m 850nm	80-31-011
1 Gbps SM 10km 1300nm	80-31-031