



Description

The OCMR with redundant power supply capability is the second generation Optical Communications Mainframe Chassis which forms the backbone of the Light Link Series 3 product range.

The OCMR chassis is fully backward compatible with PBN's complete range of optical, RF, and data modules to suit CATV, Ethernet, FTTC, FTTH, HFC and telecommunication applications.

The new design employs the same form factor as its predecessor, the OCMC, still 5 RU high, 19" rack mountable, but now with 10 slots for high density applications and full power redundancy.

Comprehensive control and monitoring of the OCM is included in the chassis itself, with a 4 line LCD and keypad to navigate through any of the modules' various monitoring and control features.

As a crucial element in any small or large city optical network, the OCMR is designed with fully modular and hot-swappable active parts which allow for continual system operation, providing uninterrupted services to the end subscriber.

The OCMR can be optioned with an integrated SNMP agent and Ethernet port. This makes it possible to monitor and control an OCMR chassis through an IP network with PBN's NMS3-NetCraft software or an SNMP manager.

Features

- ✦ 5 RU high, 19" wide, 10 slot chassis for PBN designed plug in modules.
- ✦ Can be equipped with dual, hot-swappable power supplies for redundant power applications.
- ✦ Large LCD panel for easy setup of modules and system monitoring.
- ✦ IEC297 compatible 19" rack.
- ✦ Space below modules for optical fibre patch cords and RF cable access.
- ✦ Mountable at ½ RU intervals allowing maximum use of rack space in communications cabinets.
- ✦ Horizontal, fan forced airflow permits the mounting of multiple OCMR without the need for rack space clearance between chassis.
- ✦ Local monitoring of system and modules via USB port.
- ✦ Remote monitoring via optional integrated SNMP agent and web server (HTTP) through 10Base-T Ethernet port for system wide, NMS3 network management.
- ✦ Hot-swappable front panel display and micro-controller assembly.

Specifications

OCMR Chassis

Module slots:	10 x OCM plug and play module capable
Alarms:	Directly to front panel LCD, remotely to NMS3 Dragon Nest server
Monitoring and control:	Integrated 4-line LCD display and keypad, USB port for local monitoring via laptop, Ethernet port (SNMP option) for remote monitoring and control via NMS3 system
Ethernet interface (only with SNMP option): Local IP settings for SNMP option:	10BASE-T, RJ-45 socket Via front panel keypad and LCD.

General

Power:	Via OCMPS modules located at top of OCMR
Power rails:	26.0 V, 4.0 A max. 14.5 V, 3.0 A max. -14.5 V, 1.0 A max. 7.5 V, 7.0 A max.
Operating temperature:	0 °C to 45 °C
Cooling:	Via cooling fans in OCMPS and OCMFAN modules
Maximum heat generation:	870 BTU/h for a fully loaded chassis.
Dimensions (HxWxD)	
OCMR:	225 x 485 x 440 mm
OCMPS/OCMFAN:	50 x 210 x 350 mm
Ship size (HxWxD)	
OCMR:	400 x 600 x 600 mm
OCMPS/OCMFAN:	70 x 280 x 570 mm
Weight	
OCMR:	6.5 kg
OCMPS-230:	2.2 kg
OCMPS-48:	2.0 kg
OCMFAN:	1.0 kg
Ship weight	
OCMR:	13 kg
OCMPS-230:	3.2 kg
OCMPS-48:	2.6 kg
OCMFAN:	1.6 kg

OCMPS Electrical Performance

Power supply modules:	Up to 2 hot swappable modules in the top tray of OCMR. One power supply can power a fully loaded chassis. 2 power supplies provide redundancy in case of single power supply failure.
Power input	
OCMPS-230:	90 Vac to 264 Vac, 50/60 Hz
OCMPS-48:	-45 Vdc to -62 Vdc
Inrush current	
OCMPS-230:	2.5 A max
OCMPS-48:	10 A max
Cooling:	In-built, thermistor controlled cooling fans. Two fans per power supply module.

Ordering Information

OCMR-0	Chassis, empty.
OCMR-SNMP	Chassis with SNMP module.
OCMR-SNMP-2B	Chassis with SNMP module, with 2 x 48 V battery power supply modules.
OCMR-SNMP-AU	Chassis with SNMP module, with 2 x mains power supply modules, with 2 x mains cables for Australia GPO.
OCMR-SNMP-EU	Chassis with SNMP module, with 2 x mains power supply modules, with 2 x mains cables for continental Europe.
OCMR-SNMP-UK	Chassis with SNMP module, with 2 x mains power supply modules, with 2 x mains cables for United Kingdom GPO.
OCMR-SNMP-US	Chassis with SNMP module, with 2 x mains power supply modules, with 2 x mains cables for USA GPO.

Power and cooling modules for OCMR chassis

OCMPS-230	Power supply module with fans for 90 Vac to 264 Vac 50/60 Hz
OCMPS-48	Power supply module with fans for -48 Vdc
OCMFAN	Fan module for OCMR