



# DATA SHEET

## GPON

### GPON OLT

#### 1RU - UPLINK 8 / 16 PORTS, DOWNLINK 8 GPON PORTS



CPG8OLT-B



CPG8OLT

#### Features

- 8 PON Port SFP Capability
- Dual 10GE SFP+ Uplink Port
- 20Km Transmission Distance
- Up to 128 Split per PON
- 45W Power Consumption
- 19", 1 RU Rackmount Housing
- Web, EMS, CLI SNMP Support
- 0°C To +50°C Operation
- 4kV Surge Protection
- Remote Management
- Alarm Configuration and Log
- Dual Powering Option
- Status LEDs
- Layer 2/3 Switching Functions

#### Overview

The C-COR range of GPON OLTs are high performance 1RU GPON OLT solutions offering economical PON networking via 8 SFP ports utilising familiar PON connectivity.

The unit may be shelf or rack mounted with supplied mounting hardware.

Each of the 8 GPON ports can be provisioned with user SFP modules and support a maximum PON split of 128 on each port giving a maximum 1,024 split across the OLT.

The OLTs feature dual power feed options with intelligent fan management for efficient cooling.

In operation there are LED indicators provided to indicate, Power, Optical link status and Ethernet activity on each port.

The C-COR OLT units are very easy to install and operate with front port access and system configuration via Web, Application or Command Line Interface.

Extensive layer 2 / 3 switching and routing is offered with support for 4,096 VLANs, 16/32 K MAC, QinQ, tagging, LACP, QOS, ACL, Port Isolation\*, IEEE802.x flow control, IGMP snooping, 256/2,048 IP multicast, DHCP, ARP proxy and static and dynamic routing.

#### Dimensions and Weight

|                                |           |                  |
|--------------------------------|-----------|------------------|
| Dimensions<br>(H x W x D) (mm) | CPG8OLT-B | 43.6 x 442 x 320 |
|                                | CPG8OLT   | 43.6 x 442 x 200 |
| Weight (kg)                    | CPG8OLT-B | 4.05             |
|                                | CPG8OLT   | 3.1              |



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## Physical Specification

| Item                   | Parameter                   | CGP8OLT-B                                | CGP8OLT                     |
|------------------------|-----------------------------|--|-----------------------------|
| Uplinks                | Total Quantity              | 8  | 16                          |
|                        | Copper 1GE Auto Negotiation | 4  | 8                           |
|                        | SFP 1 GE                    | 2  | 6                           |
|                        | SFP+ 10 GE                  | 2  |                             |
| GPON                   | Total Quantity              | 8  |                             |
|                        | Interface                   | SFP Slot                                 |                             |
|                        | SFP Type**                  | Class C++/ C+++                          |                             |
|                        | Max. Split Ratio            | 1:128                                    |                             |
|                        | Connector                   | SC/UPC                                   |                             |
|                        | Fibre Type                  | 9/125µm SMF                              |                             |
|                        | Standard                    | ITU984.x                                 |                             |
| Management Ports       |                             | 1*GE out-band,<br>1*Console,<br>1*USB2.0 | 1*GE out-band,<br>1*Console |
| Isolation Level*       |                             | @PON                                     | @Switch                     |
| MAC Addresses          |                             | 32 K                                     | 16 K                        |
| IP Multicast Addresses |                             | 2,048                                    | 256                         |

### Note:

\* Isolation at the PON level is available via the CGP8OLT-B model. The CGP8OLT provides isolation at the switch level.

\*\* C++ SFPs are typically offered as standard.

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### PON Port Optical Specification

| Parameter                          |            | Value       |
|------------------------------------|------------|-------------|
| Transmission Distance (km)         |            | 20          |
| GPON Rate (Gbps)                   | Downstream | 2.488       |
|                                    | Upstream   | 1.244       |
| Wavelength (nm)                    | TX         | 1490        |
|                                    | RX         | 1310        |
| Optical Transmit Power (dBm)       |            | +4.5~+10    |
| Optical Receiver Sensitivity (dBm) |            | ≤ -30       |
| Saturation Optical Power (dBm)     |            | -12      -8 |

### Environment Specification

| Parameter                  |        | Value                      |
|----------------------------|--------|----------------------------|
| Power Supply               | AC     | 100 ~ 240V /<br>47 ~ 63 Hz |
|                            | DC (V) | -48                        |
| Power Supply Redundancy    |        | Dual Hot Swappable Option  |
| Power Consumption (W)      |        | 45                         |
| Operating Temperature (°C) |        | 0 ~ 50                     |
| Relative Humidity (%)      |        | 5 ~ 90 (non-condensing)    |

### Ordering Information

| P/N       | Description              |
|-----------|--------------------------|
| CGP8OLT-B | GPON 8xUplink 8xPON OLT  |
| CGP8OLT   | GPON 16xUplink 8xPON OLT |

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development, technical  
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Contact your local sales representative for product availability in your  
area and for other interface and option requirements.