

## Everon® SD-LAN GPON OLT



1LAN-SDOLT-G81



Rear View

The Corning 1LAN-SDOLT-G81, GPON OLT, is a 1 RU OLT solution that is fully ITU-T G.984/G.988 standards compliant. It can support triple play services at an aggregate of 20Gbps while utilizing LACP/LAG on uplinks.

Capable of 8 PON links, each delivering 2.5Gbps (downstream)/1.25Gbps (upstream) of shared bandwidth between up to 64 subscribers it is possible to serve a maximum of 512 subscribers. Uplink connections are possible with available ( 2 ) 10GE SFP+ and ( 2 ) GE SFP interfaces.

The Enriched Bandwidth Allocation Policies of the device supports 1024 ALLOC-IDs, 4096 GEM-Ports, and 5 T-CONT types. The OLT adheres to ITU-T G.984.3 as well. The enriched QoS features such as traffic policy/traffic shaping/rate limit/Schedule allows customers to provision flexible bandwidth policy for multiple user and service types.

Powerful OMCI functions enable remote diagnostics, flexible provisioning, and reconfiguration through the Corning® Everon® SD-Lan Orchestration platform.

Features	Capabilities
PON	<ul style="list-style-type: none"> <li>▪ Split Ratio: 1:64</li> <li>▪ 4095 GEM ports</li> <li>▪ 1024 T-CONT</li> <li>▪ Support B+/C+ PON transceiver</li> <li>▪ SN/SN+Password ONU authentication</li> <li>▪ FEC</li> <li>▪ ONU digital diagnostic monitor</li> <li>▪ Rogue ONU detection</li> </ul>
L2	<ul style="list-style-type: none"> <li>▪ Wire-rate switch/forwarding</li> <li>▪ 32K MAC address table</li> <li>▪ Port-based VLAN, Protocol-based VLAN, 802.1q VLAN</li> <li>▪ ONU-based QinQ, 1:1/N:1 VLAN translate</li> <li>▪ LACP/LAG</li> <li>▪ RSTP</li> <li>▪ Port mirror</li> <li>▪ Flow control/Back pressure</li> <li>▪ Broadcast/DLF/Unknown multicast storm control</li> </ul>
L3	<ul style="list-style-type: none"> <li>▪ Switch Virtual Interface (SVI)</li> <li>▪ Static route</li> <li>▪ Static/Dynamic ARP</li> <li>▪ ICMP/Traceroute</li> <li>▪ DHCP Server/DHCP Relay</li> </ul>
Multicast	<ul style="list-style-type: none"> <li>▪ IGMP v1/v2 snooping</li> <li>▪ MLD v1 snooping</li> <li>▪ IGMP snooping with proxy</li> <li>▪ Fast leave</li> <li>▪ 2K IGMP table</li> </ul>
QoS (Quality of Service)	<ul style="list-style-type: none"> <li>▪ IEEE 802.1p, 8 CoS queue</li> <li>▪ SP/WRR/SP+WRR</li> <li>▪ IPv4 TOS/IP Precedence</li> <li>▪ Classification/Shaping/Policy/Rate limit/Schedule</li> <li>▪ DBA</li> <li>▪ ONU-based bandwidth control in downstream</li> </ul>
OAM	<ul style="list-style-type: none"> <li>▪ FTP/TFTP, SNMP v1 and v2c, Telnet, Console (CLI)</li> <li>▪ In-band/Out-band management</li> <li>▪ Auto provision for ONU configuration</li> <li>▪ PM</li> </ul>

## Specifications

Product Specifications	
Physical	
Size	482 mm (W) x 293 mm (D) x 44 mm (H)
Weight	4.8 kg
Power	DC: -48V/AC: 220V (Pluggable) Dual DC/Dual AC power redundancy
Form	1U chassis with CSM&Uplink&PON/ FAN/Anti-dust card
Size	482 mm (W) x 293 mm (D) x 44 mm (H)
Console	1 RJ45 (RS232) interface
Out-band interface	1 RJ45 10/100Base-T interface
Uplink Interface	2 SFP GE/2 SFP+10GE interface
PON interface	8 GPON interface
PON fiber type	SM, BIDI
PON interface type	SC UPC
Power	
PSUs	2 redundant, hot swappable AC
Input Voltage	85-260 VAC, 50-60 Hz
Input Current	Min. 0.22 A @ 120 VAC (26.7 W) Max. (fully loaded) 0.4A @ 120 VAC (47.2 W)
Parameters	
PSUs	2 redundant, hot swappable AC
Throughput	65.5/95.2 Mpps
Flash Size	64 M Bytes
Memory Size	1 G Bytes
Consumption	36 W/50 W
Bandwidth	1.25 Gbps (Upstream) 2.5 Gbps (Downstream)
PON Tx Power	3~7 dBm (C+)
PON Rx Sensitivity	-30 dBm (C+)
PON Rx Overload	-6 dBm (C+)
Wavelength	1490 nm 1310 nm

Specifications (continued)

Product Specifications	
Environment	
Operating Temperature (C)	-5°~45°
Storage Temperature (C)	-40°~70°
Relative Humidity	10%~90%, no condensing
Standards Compliance	
ITU-T G.984/G.988	
IEEE 802.1D, Spanning Tree	
IEEE 802.1Q, VLAN	
IEEE 802.1w, RSTP	
IEEE 802.3ad, LACP	
Ethernet – II	
Regulatory	
PSUs	FCC CFR 47 Part 15B, ANSI C63.4-2014

Ordering Information

Description	Part Number
GPON 8 port OLT, 2 uplink, 1RU, dual AC power supplies	1LAN-SDOLT-G81
SFP OLT GPON 2.5 GE 20 KM, TX/RX Class B+	1LAN-SFP-GPON

