



## Passive Optical Network (PON) Solution (GPON System - OLT)



OLT

### Description

- Is the future-proof FTTH service platform and available GPON solution that is based on the newly accepted ITU-T GPON standards G.984.1, G.984.2, G.984.3, G.984.4.
- It is designed to address ever increasing needs for bandwidth by providing max 2.5 G bandwidth to each subscriber.
- It has a rich set of features including higher bandwidth, security, scalability and comprehensive support of next generation service offerings based on QoS and SLA.

### OLT Specification

Parameter		OLT Specification
Standards		<ul style="list-style-type: none"> <li>•ITU-T G.984 Compliant</li> <li>•2.5 G Downstream (1490 nm) / 1.25 G Upstream (1310 nm) / RF CATV Overlay (1550 nm)</li> <li>•Distance : 20 Km Split Ratio : Up to 1:128</li> </ul>
Dimension	Rack	<ul style="list-style-type: none"> <li>•1800 mm System : 1 PDP/2 OLT Shelf / 2 FDP</li> <li>•2200 mm System : 1 PDP/3 OLT Shelf / 3 FDP</li> </ul>
	Shelf	<ul style="list-style-type: none"> <li>•19" (W) x 11U (H) x 365 (D) mm, Rack Mountable Enclosure</li> <li>•16 Slots (2xSystem Controller / 2xSwitch / 12xPON or TDM)</li> </ul>
Interface & Feature	PON	<ul style="list-style-type: none"> <li>•2.5G Downstream / 1.25G Upstream : 4 Ports/Card</li> <li>•Bidirectional Transceiver for Single Fiber</li> </ul>
	Data	<ul style="list-style-type: none"> <li>•1000 Base-SX/LX (SFP) : Max. 24 Ports</li> <li>•L2 : VLAN, STP, LACP</li> <li>•L3 : Static, RIP, OSPF</li> <li>•Multicast : IGMP, PIM-SM/DM</li> <li>•IPv6 Support</li> <li>•QoS : Classification, Marking / Remarking, DSCP, 802.1p</li> </ul>
	TDM	<ul style="list-style-type: none"> <li>•32 E1 Leased Line Ports / 32 E1 V5.2 Ports</li> </ul>



# ORNET



Parameter	OLT Specification
Capacity	<ul style="list-style-type: none"><li>•48 PONs (1536 ONT Subscribers)</li><li>•96 Gbps Switching Capacity</li><li>•Native TDM Transmission Using GEM</li></ul>
Protection Switching	<ul style="list-style-type: none"><li>•System Controller : Concurrent Write Duplication (1+1)</li><li>•Switch : Load Share</li><li>•PON and TDM : 1+1</li></ul>
Environmental Condition	<ul style="list-style-type: none"><li>•Operating Temp.: -5 ~ 50</li><li>•Humidity: 20% ~ 80%</li></ul>
Power	<ul style="list-style-type: none"><li>•-48V DC (-42.5V ~ -46.5V)</li></ul>

