

# GPON OLT

## iGL2100



**Comtrend's iGL2100** is a GPON OLT is a next-generation solution for high-performance optical access networks, designed for flexible deployment in FTTH, FTTB, FTTC, FTTD, and Wi-Fi backhaul scenarios. Supporting 16 GPON ports, each unit can connect up to 2,048 ONUs with a 1:128 splitter ratio, offering a maximum transmission distance of 20 kilometers. With a compact pizza-box design, passive cooling, and hot-plugging support, the iGL2100 ensures low operational costs and easy installation. Its unified, micro-service based Element Management System (EMS) provides centralized management, compatible with both physical and cloud platforms for seamless scalability.

### KEY FEATURES

- **Access to Fiber Optical Network:** Supports downstream 2.5Gbps and upstream to 1.25Gbps
- **16 GPON ports**
- Unified **Element Management System (EMS)** with micro-service architecture for scalability and cloud/physical platform deployment
- **Compact design** with passive cooling and hot-plugging for easy deployment and cost savings

# iGL2100

SPECIFICATIONS	
<b>GPON Ports</b>	16 ports
<b>Maximum ONUs Supported</b>	Up to 2,048 ONUs (1:128 splitter ratio)
<b>Uplink Ports</b>	2 x 10GE/GE ports
<b>Downstream/Upstream Speed</b>	Downstream: 2.5Gbps; Upstream: 1.25Gbps
<b>Transmission Distance</b>	Up to 20 kilometers
<b>Cooling</b>	Passive cooling
<b>Hot-Plugging Support</b>	Yes
<b>Switching Capacity (Bi-direction)</b>	124 Gbps
<b>Physical Design</b>	Compact pizza box form factor
<b>Operating temperature</b>	-20 °C to 65 °C
<b>Storage temperature</b>	-40 °C to 70°C
<b>Operating Relative Humidity</b>	10% to 90% (non-condensing)
<b>Splitter Ratio</b>	1:128
<b>Supported Optical Modules</b>	GPON Optical Modules and Uplink Optical Modules
<b>Power Supply</b>	Region-specific standard AC power cables  DC/AC (1+1 redundancy, Fixed)  -40V DC to -60V DC  100V AC to 240V AC
<b>Total Power Consumption</b>	50W
<b>Weight</b>	3.3kg
<b>Dimensions</b>	482mm x 210mm x44mm (19-inch width,1U Height)

## COMTREND

**Taiwan:**  
3F-1, No.10, Lane 609, Chongxin Road, Section 5,  
Sanzhong Dist, New Taipei City 241405, Taiwan  
Tel: +886-2-29998261

**India:**  
446 Sector 8, IMT Manesar, Gurugram,  
Haryana 122051, India  
E-mail: [india.admin@comtrend.com](mailto:india.admin@comtrend.com)

**USA & Canada:**  
530 Technology Dr. Suite 100 Irvine,  
CA 92618 USA  
Tel: +1-949-753-9640

**Spain:**  
C/ Proci3n, 7 portal 2, 1º C - Edif. Am3rica II  
28023 Madrid, Spain  
Tel: 34-917990403

**Czech Republic:**  
TOKOVO Jankovcova 1518/2, 170 00, Prague 7,  
Czech Republic  
Tel: +420-266-782040

Product specifications and design are subject to change without notice.