



## OPTICAL MODEM GPON LW110-44B



<b>Product Type</b>	Laserway Equipment
<b>Description</b>	The ONT LW110-44B is ideal for enterprise applications in Laserway solutions. It provides users with the ability to access the internet and access high-quality voice services.
<b>General Characteristics</b>	<ul style="list-style-type: none"> <li>• Dimensions (W x L x H): 250 x 141 x 44 mm;</li> <li>• Weight: 500g;</li> <li>• External power supply, AC input 100~250 VAC, output 12 VDC, maximum current 1.5A;</li> <li>• Electrical power consumption: &lt;10W;</li> <li>• LEDs indicating status;</li> <li>• Conditions of Operation:                             <ul style="list-style-type: none"> <li>• Operating Temperature: 0 to 40 °C;</li> <li>• Storage Temperature: -40 to 70 ° C;</li> <li>• Relative Humidity: 5% ~ 90%, non-condensing.</li> </ul> </li> </ul>
<b>Interfaces</b>	<p><b>GPON</b></p> <ul style="list-style-type: none"> <li>• SC-APC Connector;</li> </ul> <p><b>Ethernet</b></p> <ul style="list-style-type: none"> <li>• 4xGE 10/100/1000 Base-T RJ-45 connector;</li> </ul> <p><b>FXS/Pots</b></p> <ul style="list-style-type: none"> <li>• 4x RJ-11 FXS;</li> </ul>
<b>GPON</b>	<ul style="list-style-type: none"> <li>• Full support for ITU-T G.984;</li> <li>• FEC support;</li> <li>• Supports Single T-CONT mode or Multiple T-CONTs mode;</li> <li>• Support up to 32 T-CONTs;</li> <li>• Support for GEM Multicast Port;</li> <li>• Support up to 256 GEM ports;</li> <li>• Mapping GEM Ports into a T-CONT with scheduling based on priority queues;</li> <li>• Activation with automatic discovery SN and password in accordance with ITU-T G.984.3;</li> <li>• GPON Tx:                             <ul style="list-style-type: none"> <li>• Upstream 1.25 Gbps transmission;</li> <li>• Wavelength: 1310nm;</li> <li>• Based on T-CONTs;</li> </ul> </li> </ul>

- Transmission power: 0.5 to +5 dBm;
- GPON Rx:
  - Downstream transmission 2.5 Gbps;
  - Wavelength: 1490nm;
  - Based on GEM Ports;
  - Sensitivity: -27 dBm;
  - Saturation: -8 dBm.

---

## POTS Characteristics for analog telephony

- Support for SIP, H.248, MGCP, SDP and RTP protocol, RTCP (RFC3550,3551);
- Support for G.711, G.723, G.726, G.729 (A / B);
- Support T.38 FAX or pass-through;
- Support for echo cancellation, compatible with G.165, G.168;
- 5-REN per FxS port
- Balanced Ring, 55V RMS
- In-band or out-band DTMF sending
- Configurable dial plan
- DHCP or static IP client configuration
- Support for the features: Caller ID, Call Waiting, Call Waiting Control, Direct Call, CLIP (onhook, offhook), Call Forwarding, Call Transfer and Three Way Calling

---

## Layer 2

- Support for 1518 byte IEEE 802.3as MTU;
- Support for 802.3, 802.3u, and 802.3ab;
- Support for the 802.3az standard, Green Ethernet;
- Support for 802.1p, 802.1d, 802.1q;
- VLAN tagging / untagging;
- VLAN double tagging, IEEE 802.1ad;
- VLAN Switching;
- VLAN Translate;
- Automatic MAC learning;
- 1,024 MAC addresses;
- 8 services with groups of 12 VLANs per service;
- VLAN filter per port;

---

## Qos

- Support classification of packages based on DSCP and IP protocols
- Support classification of packages based on 5 classification combination
- Support for scheduling algorithms SP, WRR, SP + WRR
- 8 rows per door;
- MAC-based service classification, port, VLAN-ID, 802.1p bit, ToS / DSCP;
- Scheduling controlled priority and rate;
- Broadcast / Multicast rate limiter;

---

## Multicast

- IGMP Snooping;

---

**Management and Procurement**

- Management support via OMCI protocol according to the G.984.4 standard;
- Band configuration by service or port (fixed, guaranteed and maximum);
- Provisioning of all services, including Ethernet, VoIP, etc .;
- Local access via Telnet and SSH connection;
- Alarms and performance monitoring;
- Remote Access (OLT) via Telnet and SSH connection;
- Maintains two software image sets, for integrity check and automatic rollback;
- Remote activation and rebooting;

---

**Ethernet**

- Auto-MDI/MDIX support;
- Self-negotiation;
- Flow Control;

---

**Certifications**

- ANATEL 07281-18-00256
- CE

---

**Warranty**

- One-year warranty.

---

**Note**

- Software Technical Validity: 365 days.

---

**Included Accessories**

- External power supply, input AC 90~250 VAC, output 12 VDC, maximum current 1.5A;
  - Warranty certificate;
  - Installation guide.
- 

[Part Numbers](#)