# MODEM OPTICO INDUSTRIAL GPON LD510-20B

## Description

The Industrial ONU LD 510-20B is the equipment used in FTTx networks as user access terminal.It is responsible for converting the optical signal from the GPON network (ITU-T standard G.984.1) to an electrical signal (Ethernet standard) and vice versa.
The equipment supports rates up to 2.5Gbps for downstream and 1.25Gbps for upstream.
It is designed for indoor applications that require more robust features such as IP30 enclosure and extended operating temperature range.It has 2 Giga Ethernet ports and Layer 2 operation option.

## Electrical Characteristics

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| Power Connection | • DC inputs from 12 to 48 VDC;<br>• Optional: AC / DC adapter (input: 100-200VAC, 50 / 60Hz; output: 12VDC / 1A);<br><br>**Power supply not included** |
| Power | 6W |

## Environmental Characteristics

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| Installation Environment | Indoor and outdoor environments (when accommodated / installed in appropriate enclosure). |
| Storage Temperature (°C) | -5 °C to 80°C |
| Operation Temperature (ºC) | -40 ° C to 75 ° C |

## Compatibility

Compatible with Furukawa OLTs:

- 37050052 - OPTICAL CONCENTRATOR STANDALONE OLT GPON 3508
- 37050050 - OPTICAL CONCENTRATOR STANDALONE OLT GPON 3516
- 35510452 - OPTICAL CONCENTRATOR STANDALONE OLT GPON LW3008C
- 35510205 - OPTICAL CONCENTRATOR CHASSIS GPON FK-OLT-G2500

## Features

| GPON | Supports FEC (Forward Error Correction);<br>Support up to 8 T-CONTs;<br>Support up to 256 GEM ports; |
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| Layer 2 | • IEEE 802.3ac - VLAN Tagging<br>• IEEE 802.1Q - Virtual LANs<br>• IGMP v1 / v2 / v3<br>• VLAN tagging/untagging<br>• VLAN trunking<br>• VLAN Stacking (QinQ)<br>• VLAN Switching<br>• VLAN Translate<br>• 802.3n Flow Control<br>• MAC Learning and Automatic Aging<br>• Support for up to 1024 MAC address<br>• MAC limit |
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| Qos | • Bridging / switching mode support: IEEE 802.1D / 802.1Q;<br>• Traffic management (priority queuing and traffic shaping);<br>• Classification and marking of traffic;<br>• QoS with IEEE 802.1p + DSCP support;<br>• QoS / CoS with IPv4 support. |
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## Interfaces

- 1 optical interface GPON SC-APC single-mode;
- 2 metal interfaces RJ-45 1000Base-T (GbE);

## Packaging

| Items Included | • Manual<br>• Guarantee certificate<br>• DIN Rail Adapter<br>• Electrical terminals |
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## Ilustrations

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Certificações e Normas

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Standard

- ITU-T G.984.1;
- ITU-T G.984.2;
- ITU-T G.984.3;
- ITU-T G.984.4

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Notes

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The Optical GPON Industrial Modem LD510-20B does not come with a power supply.
The following power supply is recommended:

- 35510433 - POWER SUPPLY 12V/2A ADAPTER STANDARD NBR/CE FOR OPTICAL MODEM

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Warranty

- One-year warranty.
- Software Technical Validity: 365 days.

In order to guarantee the proper system operation, the equipment compatibility is only ensured with Furukawa's GPON OLTs. All technical support activities by Furukawa are conditioned to this observance.

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Part Numbers