



- » SC/APC Conector
- » 2 RJ45 ports - Gigabit Ethernet
- » Routing and Firewall functions (PPPoE, NAPT, DHCP Server)
- » TR-069
- » Video - Multicast (IGMP v2/v3 Snooping)
- » Capacity for up to 10 SSIDs
- » InMesh (Developed upon Easymesh technology)
- » Wi-Fi AC 1200 Mbps

ONT with 2 Gigabit Ethernet ports and Wi-Fi

**GPON  
EPON**  
PASSIVE OPTICAL NETWORKS

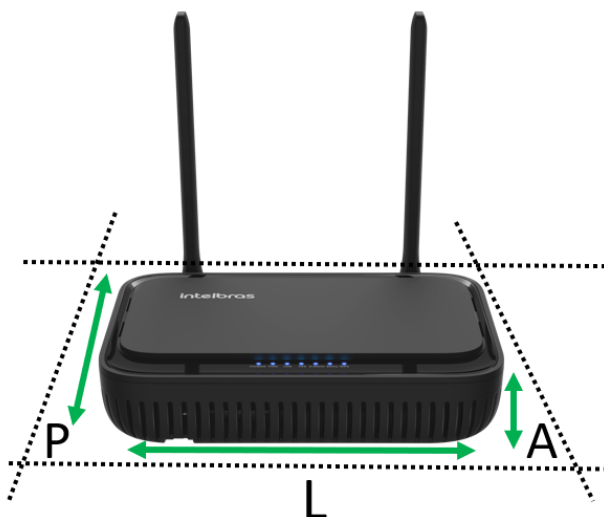
**inmesh**  
INTELBRAS MESH TECHNOLOGY

**IPV6**  
COMPATIBLE

**AC 1200**  
MEGA SPEED

The quality of Fiber Optics and high-performance Wi-Fi combined in one product. The ONT converts the GPON/EPON signal in Ethernet and Wi-Fi that allows both 2,4Ghz and 5,0Ghz bands, the product also has the InMesh solution that provides a larger Wi-Fi coverage when integrated with intelbras compatible routers equipped with the technology. The ONT can be managed and monitored remotely through the OLT, also, the ONT provides all the services needed by the users. These services range from residential services with multicast support for TV to ultra-broadband services (Triple Play)

Product Overview



L	A	P
73 mm	25,2mm	90mm



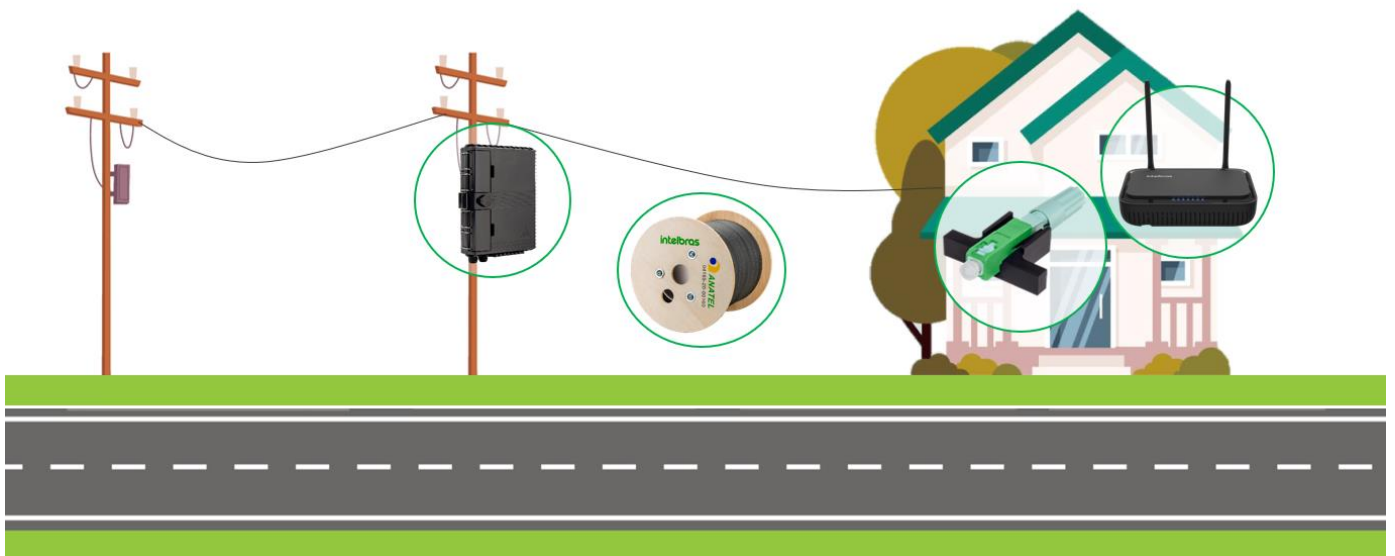
## Technical Specifications

Operational Environment	Temperature range: 0 °C ~ 45 °C Humidity range: 10 ~ 90%
Power Source	In: 100–240 V / 50/60 Hz Out: 12 Vdc / 1 A Power Consumption: 12 W
GPON Interfaces	1 SC/APC connector conforming to ITU-T G.984 Optical System conforming to B+ class APD receptor and DFB transmitter <b>GPON Tx</b> » 1.244 Gbps upstream (transmitter), wave-length value of 1.310 nm » Signal power range from 1,3 to 4,0 dBm <b>GPON Rx</b> » 2.488 Gbps downstream (receptor), wave-length value of 1.490 nm » Maximum receiver sensitivity value: -8 dBm » Minimal receiver sensitivity value: -28 dBm
EPON Interfaces	Conforming to IEEE.802.3ah EPON protocol » 1.25 Gbps upstream (transmitter) » 1.25 Gbps downstream (receptor)
Ethernet Interfaces	2 Gigabit Ethernet ports (10/100/1000) Conforming to the IEEE 802.3 specifications Auto MDI/MDIX Self-negotiation
Wireless Interfaces	Chipsets: RTL8812FR + RTL8192FR (Realtek) Two external antennas Compatible with IEEE 802.11b/g/n/ac
Hardware	Chipset RTL9607C-VA5-CG++ (Realtek) FLASH Memory: 128 Mb SDRAM Memory: 128 Mb
Supported Standards	Compatible with ITU-T G.984 Compatible with IEEE 802.3 Ethernet Compatible with IEEE 802.1q/p VLANs Compatible with IEEE 802.3u Fast Ethernet Compatible with IEEE 802.3ab 1000BASE-T
Standard Protocols	» ITU-T G.984 (GPON) » Compatible with IEEE 802.3ah (EPON) » 32 T-CONTS per device » 128 GEM Ports per device » Activation with automatic discovery of SN and passwords, conforming to ITU-T G.984.3 » AES-128 decoding with key generator and commutation » FEC (Forward Error Correction) » Support to Multicast GEM Port » GEM Ports mapping in T-CONTS with code based on QoS priority queue

Standard Protocols	<p><b>Switching</b></p> <ul style="list-style-type: none"> <li>» 802.3x Flow control</li> <li>» Automatic learning of MAC address</li> <li>» Supports up to 2K MAC address entries MAC for flows configured in RG mode</li> <li>» 802.1x authentication</li> <li>» Telnet</li> <li>» HTTP</li> <li>» Ethernet bridging/switching by IEEE 802.1D/802.1Q</li> <li>» Traffic shaping – (Bandwidth management and speed limitation control)</li> <li>» QoS with support to IEEE 802.1p</li> <li>» Four traffic classes with 802.1p VLANs</li> <li>» VLAN tagging</li> <li>» VLAN switching</li> <li>» SSID mapping in VLAN</li> <li>» IGMP multicast</li> <li>» IGMP snooping</li> <li>» VLAN support</li> </ul> <p><b>Routing IP and Firewall</b></p> <ul style="list-style-type: none"> <li>» PPPoE Client</li> <li>» NAT</li> <li>» Port forwarding</li> <li>» DHCP Server and DHCP Client</li> <li>» DNS Server</li> </ul>
Support to Wireless	<p>Operating frequency: 2,4 GHz and 5 GHz  Mu-MiMo  2 Fixed antennas: 5 dBi  Maximum power Tx 25 dBm  Maximum number of clients connected: 64  Support up to 10 SSIDs  SSIDs mapping for VLANs: 1:1  MAC address filtering  Standards Supported:  IEEE 802.11a/b/g/n/ac  bandwidth: 2,4 GHz: 20, 40 MHz and 5 GHz: 20, 40, 80 MHz  Transmission rate: 2,4 GHz: up to 300 Mbps and 5 GHz: up to 867 Mbps  E.I.R.P: 2,4 GHz: 23dBm and 5GHz: 24dBm</p> <p>Reception sensitivity in 2.4 GHz:  -82dBm@802.11b  -69dBm@802.11g  -67dBm@802.11n 20MHz MCS7  -64dBm@802.11 40MHz MCS7</p> <p>Reception sensitivity in 5 GHz:  -73dBm@802.11a  -67dBm@802.11n 20MHz MCS7  -64dBm@802.11n 40MHz MCS7  -56dBm@802.11ac 80MHz MCS9</p> <p>Security Features: WEP, WPA-PSK, WPA2-PSK (AES, TKIP), WPA3 e WPA2+WPA3 Mixed 802.1x</p>
Management	OMCI / Web UI / CPE Manager / CLI / TR-069
Security certification and others	Anatel
Time to activate the reset button	Press the button for at least 5 seconds

**Attention:** To ensure a good ventilation, do not obstruct the lateral part of the product. The ONTs must not be piled.

Integrated Solutions (FTTH)



InMesh solution integrated with intelbras routers

