

WaveAccess Series 4000 ONTs

WA4520, WA4532, WA4032

Features

Optical Network Unit designed for residential and Small Business use. Complies with the ITU G.984.x standards and provides home Gateway functionalities to enable Triple Play services and WiFi for network access.

Bandwidth

Maximizes the usage of the GPON network by allowing data transmission at rates of 2.488 Gbps (Downstream) and 1.244 Gbps (Upstream).

KEY FEATURE

Interoperable

Compatible with main vendors' GPON OLTs*.

Class B+ optics

For optical power transmission and reception according to ITU-T G.984.2 standard.

ITU-T G.984 - OMCI

The OMCI stack has been implemented following the standard.

KEY FEATURE

WiFi 802.11 ac*

WiFi bridging is performed at hardware level, offering the best throughput. WaveAccess 4520 and 4532 support 802.11ac to provide the best range and speed.

AES encryption and FEC coding

Compatible with AES-128 encryption and FEC coding, supported in both uplink and downlink.

IPTV Filtering

Allows filtering by destination IP address, which enables the operator to offer different IPTV packs per client within the same PON.

KEY FEATURE

ZTP Ready

WaveAccess series 4000 ONTs allow their autoconfiguration by using TELNET Zero Touch Provision tool.

RF Video Overlay*

Allows video reception at 1550nm and a direct connection to a TV or decoder directly via its RF output.

Factory Default settings

The Operator can set factory default values for the router configuration, preventing configuration problems if user presses the Reset button.



WaveAccess series 4000

TELNET WaveAccess ONT family

TELNET Redes Inteligentes WaveAccess family offers a wide variety of ONTs based on GPON technology (Gigabit Passive Optical Network). TELNET offers level 2 and level 3 ONTs, in SFP format, with Gigabit Ethernet ports, POTS ports, WiFi 802.11, integrated Router or RF output for video overlay services (RF Overlay).

This variety of ONTs allows the deployment of the most adequate equipment for each available access architecture, such as Fiber To The Home (FTTH), Fiber To The Building (FTTB) or Fiber To The Office (FTTO), as well as hospitality (Fiber To The Room or FTTR), industrial or business deployments.

The WaveAccess family implement the OMCI stack and support VLAN tagging (802.1p and Q-in-Q), which makes them capable of supporting the services defined in the technical report of the Broadband Forum TR-156.

All WaveAccess ONTs are 100% compatible with TELNET's SmartOLT and its web management system TGMS (TELNET GPON Management System). It allows the configuration of triple play services in an easy way and the management of the deployed SmartOLT and ONTs' as well.

ZTP Ready ONTs can be autoconfigured by TELNET's Zero Touch Provision (ZTP) tool, which avoids having to access and configure each CPE in initial deployments, or having to use an ACS tool.



WaveAccess 4532, WaveAccess 4032

*For further information related to interoperability, please refer to TELNET RI

*RF port available in WaveAccess 4032 and WaveAccess 4532

*WiFi 802.11ac available in WaveAccess 4532 and WaveAccess 4032

WaveAccess Serie 4000



WA4520



WA4532



WA4032

	WA4520	WA4532	WA4032
L2/L3	L3	L3	L3
GbE ports	4	4	4
POTS ports	2	2	2
WiFi	b/g/n & ac	b/g/n & ac	b/g/n
CATV port	-	Yes	Yes
USB ports	1	-	-
Format	Desktop	Desktop	Desktop
Ordering information	800010122	400040260	400040213

GPON

Designed following ITU-T G.984.x

Complies with Broadband Forum TR-156

Activation via autodiscovering SN and password in conformity with ITU-T G.984.3

AES-128 encryption with key generation and switching

Bidirectional FEC (Forward Error Correction)

Rogue ONU autodetection

Optical Interface

SC/APC connector

2.488 Gbps Downstream / 1.244 Gbps Upstream

Class B + optics (28dB optical budget)

Wavelengths: US 1310nm, DS 1490nm, DS video 1550nm

Ethernet Interface

4 x 10/100/1000 Base-T interfaces for RJ-45

Tagging/change of VLAN at the Ethernet port

VLAN stacking (Q-in-Q), VLAN translation and filtering

802.1p traffic priority tagging

IGMP Snooping, supports IGMP v1/v2/v3

Multicast filtering based on multicast destination address

Router

PPPoE client

NAT/NATP functionality

DHCP client/server for dynamic IP allocation

WLAN

WiFi IEEE 802.11 b/g/n & ac*

2.4Ghz with 13 channels 2x2 MIMO

WA4520 & WA453: 802.11ac 5Ghz with MIMO 3x3

WEP, WPA and WPA2. Allows WPS authentication

WiFi-LAN/WAN wireless switching

RF (WA4532 & WA4032) *

Wavelengths: 1550-1560 nm

RF bandwidth: 47 - 1003 MHz

Input optical power: -8 a 2 dBm

RF V_{out} = 17 dBmV

RF impedance: Z_{out} = 75 ohm

POTS Interface

2x RJ-11

Multiple codecs support: G.711ALaw, G.711µLaw, G.729a, G.722

Installation

Dimensions

- WA4520: 220 mm × 160 mm × 35 mm
- WA4532 & WA4032: 217 mm × 167 mm × 39 mm
- Weight: <1Kg

Power supply

- Adapter input: 100-240V AC, 50/60Hz
- Adapter output:
 - WA4520: 12VDC/2A
 - WA4532 & WA4032: 12VDC/1.5A

Operating Range

- Temperature:
 - WA4520: -10~45° Celsius
 - WA4532 & WA4032: 0~55° Celsius
- Humidity: 10~90% relative

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