WaveAccess 4520

4x1GbE + 2xPOTS + USB + WiFi 802.11b/g/n (2x2 MIMO) and ac (3x3 MIMO)

WaveAccess 4520

Features

Optical Network Terminal (ONT) designed for residential, hospitality 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
It maximizes the usage of the GPON network by allowing data transferring at rates of 2.488 Gbps (Downstream) and 1.244 Gbps (Upstream).

KEY FEATURE

Interoperable
Compatible with main vendors' GPON OLTs*

Class B+ optics
To transmit and receive optical power 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 performed at hardware level, offering the best throughput. On top, it supports 802.11 b/g/n/ac, 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
It allows filtering by destination IP address, which enables the operator to offer different IPTV packs per client within the same PON.

Factory Default settings
The Operator can set Factory default values for Router configuration, preventing configuration problems if user presses the Reset button.

POTS ports
Two POTS ports that can be configured in single or dual mode.

TELNET WaveAccess family

TELNET Redes Inteligentes WaveAccess family offers a wide variety of ONTs based on GPON technology (Gigabit Passive Optical Network).

Aiming to cover the different needs that can appear during a GPON network deployment, TELNET offers level 2 and level 3 ONTs, in SFP format, with Gigabit Ethernet ports, POTS ports, WiFi, integrated Router or RF output for video overlay services. (RF Overlay).

This variety of ONTs allow the operator to deploy the most adequate equipment for each of the different access architectures available, such as Fiber To The Home (FTTH), Fiber To The Building (FTTB) or Fiber To The Desk (FTTD), as well as the different environments of the user network, such as residential, industrial or business.

The WaveAccess family implements 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 family ONTs are 100% compatible with TELNET's SmartOLT family and their web management systems, the TGMS (TELNET GPON Management System) and the ZTP (Zero Touch Provision), GPON CPE provisioning software.

By using the TGMS, the operator can configure triple play services in few minutes and manage all the deployed SmartOLTs and ONTs, all this from a single web interface, and in an easy an intuitive way.

The WaveAccess ONTs firmware is remotely upgradable via OMCI from the header OLT without user intervention.

The ZTP allows to automate and manage the additional and specific configuration required by all the WaveAccess ONTs in the PON, avoiding the need of accessing all of them one by one.

Technical Specifications

General features

- 2.5Gbps downstream and 1.25Gbps in upstream
- 4×10/100/1000 Base-T Ethernet
- 2×POTS for VoIP services
- WiFi 802.11b/g/n (2x2 MIMO) and ac (3x3 MIMO)
- Interoperable with main vendors' OLTs*

GPON

- Designed following ITU-T G.984.x and G.988
- Complies with Broadband Forum TR-156
- Activation with automaticaly discovered SN and password in conformity with ITU-T G.984.3
- AES-128 Encryption with key generation and switching
- Bi-directional FEC (Forward Error Correction)
- Rogue ONT Autodetection

Optical interface

- SC/APC connector
- 2.488 Gbps Downstream / 1.244G bps Upstream
- Class B + optics (28dB optical budget)
- Wavelengths: US 1310nm and DS 1490nm

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

POTS interface

- 2 x RJ-11 (single or dual mode)
- Multiple codecs support: G.711ALaw, G.711µLaw, G.729a, G.722

USB interface

- 1xUSB 2.0

Router

- PPPoE client functionality
- NAT/NATP functionality
- DHCP client/server for dynamic IP allocation

WLAN

- WiFi IEEE 802.11 b/g/n & ac, high efficiency internal antennas
- 2.4Ghz with 13 channels 2x2 MIMO
- 802.11ac 5Ghz with 3x3 MIMO
- WEP, WPA and WPA2. Allows WPS authentication
- WiFi-LAN/WAN wirespeed switching

Installation

Dimensions
220mm ×160mm ×35mm
Weight: <1Kg

Power supply:
Adapter input: 100-240V AC 50/60Hz
Adapter output: 12VDC / 2A

Operational range:
Temperature: -10 ~ 45º Celsius
Humidity: 10 ~ 90% de relative

Ordering information

Name: WaveAccess 4520

Reference: 800010122

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*For further information about interoperability, please contact TELNET Redes Inteligentes

*Technical specifications could change without previous notice. For latest information please contact with TELNET Redes Inteligentes

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