

WaveAccess 520

GPON ONT 1GbE



WaveAccess 520 ONT

Features

Optical Network Terminal to be used in FTTH architectures (Fiber To The Home) or FTTR (Fiber To The Room) in office and residential environments.

Bandwidth

Maximize the usage of the GPON network by allowing data transferring at rates of 2.488 Gbps (Downstream) and 1.244 Gbps (Upstream)

Class B+ optics

To transmit and receive optical power according to ITU-T G.984.2 standard, allowing up to 20km links.

Compatible with Routers already deployed in the network

The WaveAccess 520 acts as media converter (optical-electrical) and technology converter (GPON-Ethernet) in a transparent way, allowing the operator to reuse the routers already deployed in the network, therefore reducing its CAPEX, and allowing to keep the management infrastructure.

ITU-T G.984 - OMCI

The OMCI stack has been implemented following the standard.

AES decryption and FEC coding

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

Interoperable

Compatible with main vendors' GPON OLTs*

LED indicators

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

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 and 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

Ethernet interface

1 x 10/100/1000 Base-T interface with RJ-45 connector

802.1D bridging

Ethernet port with auto-negotiation or manual configuration

Virtual Switch based on 802.1q VLAN

IGMP Snooping, supports IGMP v1/v2/v3

Optical Interface

GPON ITU-T G.984.x compliant

1 x SC/APC connector

Wavelengths: US 1310nm, DS 1490nm

Receiver sensibility: -28 dBm

GPON

Interoperable ONT*

ONT optical class: B+

Designed following ITU-T G.984.x and G.988 standards

Activation with automatically discovered SN and password in conformity with ITU-T G.984.3

AES-128 Decryption with key generation and switching

Bi-directional FEC (Forward Error Correction)

Accessories (not included)

Accessory name: WA520 DIN-rail mounting adapter

Dimensions (mm): 61 (length) x 46 (height)

Accessory reference: 200034052-00

Accessory sale family code: FVE00008



WA520 adapter: DIN-rail mounting adapter for WA520 ONT

Product marking and labelling

CE (Conformité Européenne)

Installation

Dimensions: 108 mm x 85 mm x 25,3 mm

Weight: <200 g

Power supply:

- Adapter input: 100-240 VAC 50/60 Hz
- Adapter output: 12VDC / 0,5 A

Operational range:

- Temperature: -5 ~ +55° Celsius
- Humidity: 10 ~ 85 % relative

Product ordering information

Product name: WaveAccess 520

Product reference: 800010136

Sale family code: FVE00008

Contact Information

**TELNET Redes Inteligentes
Headquarters**
Industrial Area Centrovía
18 Buenos Aires St.
50198 La Muela, Saragossa, Spain
Phone: (+34) 976 14 18 00
Fax: (+34) 976 14 18 10
telnet@telnet-ri.es

Commercial office in Madrid
85 Menéndez Pelayo Avenue, 1° A
28007 Madrid, Spain
Phone: (+34) 91 434 39 92
Fax: (+34) 91 434 40 84

Subsidiary in Portugal
NETIBERTEL
16 Fontes Pereira de Melo Avenue, 14°D
1050 -121 Lisbon, Portugal
comercial.pt@telnet-ri.es

Subsidiary in Mexico
TELNET Azteca
Darwin 74, 3 floor, Col. Anzures
Del. Miguel Hidalgo C.P. 11590
Mexico
comercial.mexico@telnet-ri.es

www.telnet-ri.es