

FIBERLINK 2110 GPON ONU



DESCRIPTION

Fiberlink 2110 is a third generation GPON ONU designed by Parks. Flexibility is one of its main features, since the device operates both on GPON networks and on Metro Ethernet networks.

The auto-detection mechanism of fiber optic technology enables the ONU's automatic adaptation to the network to which it is connected, without requiring intervention by the user or the service provider.

The model Fiberlink 2110 has an integrated Access Point Wi-Fi 802.11n with advanced Wi-Fi features such as virtual Wi-Fi communities, wireless operation in both Bridge and Router modes, automatic channel selection, up to 4 SSIDs with provisioning via OMCI, among other features.

Support for IPv6 addressing, Wirespeed performance (1Gbit / s @ 64B) and the Green Ethernet technology are some examples that make Fiberlink 2110 the ultimate solution for your network, not just for today but for the future as well.

Specially designed for the FTTH and Metro Ethernet services market, Fiberlink 2110 is the best solution for both residential and business deployment



HIGHLIGHTS

- ✓ ITU G.984 GPON ONU
- ✓ IPv6 and IPv4
- ✓ Advanced QoS, ensuring triple-play services quality
- ✓ Operates in GPON and Active Ethernet modes with autodetection
- Allows Point to Multipoint (GPON) and Point to Point (Active Ethernet) services provision
- Maximum routing performance: up to 1Gbit/s with 64 Bytes packets
- ✓ Green Ethernet Energy-Efficient Ethernet
- ✓ IPTV Multicast, unicast, and Video on Demand
- Easy installation and provision
- Operates simultaneously in router and bridge modes
- Low latency and ultra-broadband: ideal solution for interactive and multiplayer games
- ✓ Corporate and residential Wi-Fi services

TECHNICAL SPECIFICATIONS

OPTICAL INTERFACE

GPON mode in compliance with ITU-T G.984

Operates in GPON and Active Ethernet modes, with automatic mode of operation detection

1490nm (Downstream) and 1310nm (Upstream) wavelengths

TX Power: 0.5 to +5 dBm

RX sensibility: -8 dBm to -28dBm (±3dBm)

Maximum reach of 20 km

ETHERNET INTERFACE

2x 10/100/1000 T Base (RJ45) ports

IEEE 802.3/802.3u/802.3ab compliant interfaces

Supports IEEE 802.3az (Energy-Efficient Ethernet)

Auto negotiation and auto MDI/MDI-X

Half-duplex (back pressure) and full-duplex in compliance with 802.3x (PAUSE frames)

WIRELESS INTERNET (Wi-Fi)	
Standard: IEEE 802.11 b/g/n	
Frequency: 2.4GHz	
MiMo 2x2 (2T2R)	
External omnidirectional antennas (+7dBi gain each)	
TX Power: 17dBm +/- 1,5dB (excluding antenna gain)	
Data rate: up to 300 Mbit/s	

CONFIGURATION, PROVISION, AND MONITORING

GPON provision via OMCI Configuration via Parks NMS, CLI, and WEB (local) Remote monitoring via SNMPv2 and SNMPv3 Remote (OMCI and FTP) or local (FTP) firmware update Syslog (RFC3164) for event registration, error messages and notification Status and activity LED indicators Host IP, maintenance IP, and Loopback

Reset button for factory settings recovery

FUNCIONALITIES

GPON

2.488 Gbit/s Downlink/1.244 Gbit/s Uplink data rate

Forward Error Correction (FEC) in upstream (US) and downstream (DS)

Supports static and dynamic bandwidth allocation (SBA/DBA)

128 bits AES cryptography in downstream

Up to 256 GEM (GPON Encapsulation Method) ports per ONU

ONU activation via Serial Number (SN) or password

Supports up to 7 simultaneous T-CONTs (Transmission Containers)

Flexible mapping between GEM Ports and T-CONT

Separate GEM Port for multicast

Traffic Management (priority Queue and Traffic Shaping)

ACTIVE ETHERNET

1000BASE-BX10 compliant Active Ethernet

Data rate: 1Gbit/s full duplex

Supports Transparent Lan Services (TLS)

OPERATION MODES

Router

Bridge

Hybrid mode (Router and bridge simultaneously)

ROUTER (IPV6 E IPV4)

IPv6 and IPv4 static routing

RIPv1 (RFC1058), RIPv2 (RFC2453), RIPng (RFC2080)

OSPF (RFC2328) and OSPFv3 (RFC5340)

Dynamic routes authentication using MD5 (RFC1321)

Fluctuating route based on priority or object track

Internet connection: DHCP client, static IP, or PPPoE

NAT/NAPT

DHCP Server (RFC2131, RFC2132), Relay (RFC1542), and Client (IPv4 and IPv6)

Stateful Firewall

DNS Relay and Proxy

NTP (RFC1305) with pair authentication

PPPoE client (RFC2516)

BRIDGE (SWITCHING)

Integrated Ethernet Switch with GbE ports
MAC table with up to 1024 entries
LAN ports isolation based on VLANs

VLAN

Supports IEEE 802.1d and 802.1q
VLAN ID 802.1q processing via port (Port-based VLAN)
VLAN tagging/untagging
VLAN Stacking (QinQ)
QoS and Traffic Shaping bases on VLAN

IPTV

Supports up to 128 simultaneous multicast channels and interactive TV services (VoD)

Allows IPTV traffic prioritizing (QoS) based on IEEE 802.1p

Supports Multicasting IGMP v2/v3 protocols

IGMP Proxy & Snooping

IGMP processing per VLAN ID of channels

Wi-Fi

Cryptography: WEP, WPA-PSK (TKIP), WP2-PSK (AES)

Supports up to 4 SSIDs, provided locally or via OMCI

Each virtual community (SSID) can be mapped in a different VLAN

Authentication can be done locally or through a Radius server (IEEE 802.1X authentication)

QoS through WMM (Wi-Fi MultiMedia) mechanism

Manual or automatic channel selection

Automatic or forced Data Rate

Cryptography: WEP, WPA-PSK (TKIP), WP2-PSK (AES)

SECURITY

SPI (Stateful Packet Inspection) type firewall

128 bits AES cryptography for GPON traffic (downstream)

Login with several permission levels

AAA authentication: TACACS (RFC1492), TACACS+, RADIUS (RFC2138, RFC2139)

QoS

Traffic prioritization by port, VLAN, VLAN + CoS (802.1p), or CoS only;

Up to 7 different services provided per ONU

Each provided service may be divided into up to 8 fluxes

Prioritization between fluxes may be based on WRR (Weighted Round Robin) or Rate Control

Downstream (Rate Limit) and upstream (Traffic Shaping) bandwidth limitation

MECHANICAL, ELECTRICAL AND ENVIRONMENTAL FEATURES

POWER SUPPLY

External power source

Input: 93 to 253VAC (Full Range)

Output: 12V

Consumption: 8W (maximum)

ENVIRONMENT
Operating temperature: 0 °C a 50 °C
Relative humidity: 0 to 95% (non-condensing)
WEIGHT AND DIMENSIONS

W x H x D (mm): 181 x 34 x 128 Weight: 0,288Kg



For more information, visit <u>www.parks.com.br</u>.

The information presented in this document is subject to change without previous notice.