WISI GPON
OLT GP04 (4 ports), GP08 (8 ports), GP16 (16 ports)

MAIN FEATURES:

- Compliance with GPON ITU-T Rec. G.984 and G.988 standards
- Supports optical GPON SFP transceivers Class B+, C+ and C++
- Supports up to 128 ONUs per GPON port
- PON port redundancy (active / passive)
- Comprehensive compliance with the OMCI management standard of ONTs / ONUs
- Extensive management and configuration methods by WebGUI, EMS, SNMP and CLI
- Uplink access interfaces with Fiber 1GE/10GE (SFP/SFP+) and several 1GE copper ports (RJ45) with support of the RSTP and LACP protocols (802.3ad)
- Integrated Firewall with ACL lists, Tacacs+/ Radius, DHCP Server / Relay / Snooping
- Supports IPv6, IPv6 ACL, DHCPv6, IPv6 MLD, IPv6 Route, IPv6 SLAAC

DESCRIPTION

The WISI GPON series is an innovative fiber optic access network system (FTTH), based on GPON technology, supported by the international ITU-T G.984 and G.988 standards, which provide 2.5Gbps bandwidths in descending and 1.25 Gbps in ascending in each of its GPON ports through passive optical distributions networks.

It is a system designed both for telecommunication service operators, as well as for enterprises system integrators, for the deployment of their public, residential or private networks, in order to provide advanced data, Internet, VoIP, IPTV, etc. services.

The central unit, also called OLT (Optical Line Termination), is available with capacities of 4 (GP04), 8 (GP08) and 16 (GP16) GPON ports and access interfaces (Uplink) SFP/SPF+ 1GE/10GE and 1GE/RJ45 in a compact 1UA device suitable for installation in 19 "racks.

The OLT has redundant power supplies (100-240VAC), optionally also available with redundant DC power supplies (48VDC).

The WISI GPON System offers several management possibilities, both through a WebGUI friendly environment, as well as through an EMS system, based on the SNMP v1 / 2/3 protocol and even a console port (RS232C) with usual CLI line commands.

It has several Uplink ports of Fiber 1GE/10GE (SFP/SFP+) and several 1GE copper ports (RJ45) with support of the RSTP and LACP protocols.

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TECHNICAL SPECIFICATIONS

GPON

- Compatible with ITU-T G984.1/2/3/4 and G.988 standards
- Supports up to 128 ONUs per GPON port
- PON port redundancy (active / passive)
- Supports GPON SFP Class B+, C+ and C++ optical transceiver
- Remote configuration of ONUs from the OLT via OMCI
- QoS oriented adaptive DBA algorithm
- 128-bit AES encryption
- FW Update of the ONUs through the ONT
- Maximum PON transmission distance 60km
- Maximum differential distance PON 20km

Multicast

- Multicast VLAN registration
- IGMP v1/2/3 snooping & proxy
- IGMP fast leave
- MLDv1 & MLDv2 snooping

General Data

- Dimensions: 19"-1UA (442*220*43,6mm)
- Weight: 2.8Kg (GP04), 3.1Kg (GP08), 4.5Kg (GP16)
- Temperature working range: 0 – 50°C
- Relative Humidity: 5 – 90% (non-condensing)

Power Supply

- Redundant Dual Power Supply 100 – 240 VAC 50/60Hz, (-48VDC optional)
- Power consumption: 45W (GP04), 45W (GP08), 85W (GP16)

Network Protocols

- Link Aggregation LACP 802.3ad
- RSTP (IEEE 802.1w)
- VLAN (IEEE 802.1q)
- QoS configuration (IEEE 802.1p)
- QinQ VLAN stacking (IEEE 802.1ad)
- DHCP Server, Relay & Snooping withcon Option 82
- TACACS+/RADIUS authentication

Management and Configuration

- Management via Web-GUI (HTTP/HTTPS), CLI (SSH, Telnet) and SNMP (EMS, NMS)
- Out-of-band Management via serial console port (RS232) and AUX-IP port
- Automatic detection of new ONUs and Self-Provisioning
- Easy configuration of the ONU (WAN, DHCP Server, Wifi, SIP, POTS, Misc)
- Automatic reconfiguration of the ONU when your its profile changes

Regulatory certificates:

- EN 60950-1
- EN 55032:2015+AC:2016
- EN 55035:2017
- EN 61000-3-2:2014, EN 61000-3-3:2013

INTERFACES

	GP 04	GP 08	GP 16
GPON-SFP B+/C+/C++	4	8	16
1GE RJ45	4	8	8
1/10GE SFP/SFP+	2	2	4
1GE SFP	-	6	-
AUX Mngt RJ45	1	1	1
RS232 Serial	1	1	1