SNR-ONU-GPON-1G-POE

SNR-ONU-GPON-1G-POE dual-mode ONU is one of the XPON optical network unit design to meet the

requirement of the broadband access network. It apply in FTTH/FTTO to provide the data service based on the XPON network.

SNR-ONU-GPON-1G-POE dual-mode ONU supports EPON and GPON two modes access. The ONU

automatically switches into the corresponding PON mode by identifying the local OLT mode to complete GPON or EPON adaptive access.

Functional Feature

- In compliant with ITU - T G.984 ,IEEE802.3ah Standard
- POE can be powered, but not power supply
- Support ONU auto-discovery/Link detection/remote upgrade of software
- Support SN and LOID+Password multiple registration methods
- Support port VLAN configuration
- Support mac-address learning
- Support AES encryption and decryption
- Support port flow-control
- Support port-based rate limitation and bandwidth control
- Support broadcasting storm resistance function
- Support igmp transparent/snooping/proxy mode
- Support remote management configuration
- Support Dynamic Bandwidth Allocation (DBA)
- EMS network management based on SNMP ,convenient for maintenance
- Support power-off alarm function ,easy for link problem detection

LED Definitions

Indicator		Description
PWR	Power status	On: The ONU is power on; Off: The ONU is Power off;
PON	ONU Register	On: Success to register to OLT Blinking: In the process of registering to OLT; Off: In the process of registering to OLT;
LOS	Optical signals	On: Optical power lower than receiver sensitivity ; Off: Optical in normal
INT	Internet status indicator	On: The routed WAN Internet access service is normal. Off: The routed WAN Internet access service is abnormal.
LAN	LAN Port status	On: Ethernet connection is normal; Blinking: Data is being transmitted through the Ethernet port; Off: Ethernet connection is not set up;
OPT-DIG	Light intensity indicator	On: higher than ONU RX maximum threshold; Flashing: Lower than ONU RX minimum threshold; Off: ONU RX is within the normal threshold range.

Hardware

GPON/EPON Port

- Single mode single fiber
- GPON：FSAN G.984.2 standard,Class B+
- EPON：1000BASE-PX20+ symmetric
- GPON：2.488Gbps/1.244Gbps downstream/upstream
- EPON：1.25Gbps downstream/upstream
- Wavelength :
  Transmit: 1310nm Receiver: 1490nm
- Receiving sensitivity :
  GPON：-28dBm EPON：-27dBm
- Saturated power :
  GPON：-8dBm EPON：-3dBm
- Transmitting power :
  GPON：0.5～5dBm EPON:0～4dBm

User Port(LAN)

- 1*10/100/1000M Auto-negotiation
- Full Duplex / Half-Duplex
- RJ45, Auto-MDI/MDI-X

Transmission Distance 100 Meter

Indicators

- PWR / PON / LOS / INT / LAN / OPT-DIG

Power

- External 12VDC/0.5A power supply adapter (Notice:Support 48V POE power on, support 12V input, can choose one of two, do not recommend 48V POE power on then input 12V)
- Power consumption: <4W

Dimension and Weight

- Item Dimension：
- 125mm(L) x80mm(W) x28mm (H)
- Item weight：about 100g

Environmental Specifications

- Operating temperature: 0 to 40ºC
- Operating humidity: 5% to 90%(Non-condensing)

Software

Management

- EPON :OAM / WEB / TR069 / Telnet
- GPON:OMCI / WEB / TR069 / Telnet

Register

- Auto-discovery/Link detection/Remote upgrade software
- Auto/MAC/SN/LOID+Password authentication

Business Capability

- Support VLAN TAG/UNTAG，VLAN translation
- Support Port-based speed limitation
- Support Priority classification
- Support storm control of broadcast
- Support loop detection

Management Function

- Status monitor
- Configuration management

- Alarm management
- Log management

Security

- Firewall
- MAC address/URL filter
- Remote WEB/Telnet access control

Switch

- MAC address learning
- MAC address learning account limit
- Port isolation