



EPON ONU NGN-02E

FEATURES

- IEEE 802.3ah Standard PON Interface
- Supports transmission distance up to 20km
- 10/100/1000 Base-T interface
- Bridging IEEE 802.1D
- Wavelength : TX 1310nm, RX 1490nm
- AES-128 Encryption and Decryption
- CTC 2.0, 2.1 EPON compliant
- MPCP (Muti-Point Control Protocol)
- OAM and extended OAM
- DBA (Dynamically Bandwidth Assignment)
- MAC address/LOID (Logical ONU Identifier) authentication
- IGMP snooping and controllable multicast
- Loop back detection
- Dying Gasp alarm
- Support Digital Diagnostic Monitoring Interface
- Advanced QoS & Network Management
- Protection of delay-sensitive traffic based on SLA
- Quality of Service for traffic prioritization and bandwidth management
- Remote Fault Monitoring Function



NGN-02E is a type of FTTH broadband access equipment as EPON Optical Network Unit (ONU). NGN-02E has one Gigabit-Ethernet port and one EPON optical interface. It complies with EPON international standard IEEE 802.3ah and industry standards. It has higher reliability, better QoS guarantee, and more flexible network advantages. It provides long-distance transmission of data and digital video services based on PON network architecture.



Product Specifications

OPTICAL

- 1.244 Gbps downstream, 1.244 Gbps upstream
- Optical wavelengths: 1490 +/-10nm receive, 1310 +/-20nm transmit
- Launch power: 0.5 to +5 dBm
- Receiver Sensitivity: -28 dBm
- Input power overload: -8 dBm

EPON

- ONT MAC or LOID discovery and Registration ID provisioning
- IEEE802.3ah and CTC2.1 OAM compliance
- Downstream Advanced Encryption Standard (AES) support
- Forward Error Correction (FEC)
- Dynamic Bandwidth Allocation(DBA)

OAM

- Remote firmware upgrade including automatic rollback

ETHERNET

- 10/100/1000 Base-T interface with RJ-45 connectors
- Meets IEEE 802.1 specifications

- MDI/MDIX auto-sensing and auto-negotiation
- Ethernet bridging and switching per 802.1D
- 802.1P marking/remarking, DSCP mapping
- 802.1Q including VLAN translation, filtering, tagging, stacking (QinQ)
- Automatic MAC address learning, aging and filtering
- Up to 64 MAC address entries
- MAC address limiting
- Up to 48 IPv4 and 24 IPv6 multicast groups
- IGMP v2/v3 Snooping and MLD v2/v
- IGMP snooping with immediate leave

PHYSICAL LIST

- Dimensions: 115mm x 96mm x 32mm
- Power Input: 0.5A
- Power Consumption: DC 12V
- Operating Temperature: +0°C to +40°C
- Operating Humidity: 5% to 95%
- Storage Temperature: -40°C to +60°C
- Storage Humidity: 0% to 95%

LED INDICATION

LED	COLOR	STATE	INDICATION
POWER	GREEN	OFF	ONU Power off
		ON	ONU Operating from AC power
PON	GREEN	OFF	ONU does not start ranging
		ON	ONU PON is fully operational
		BLINK	ONU is in activation process
LOS	RED	BLINK	ONU lower receive optical sensitivity
		ON	ONU PON transceiver power down or PON MAC loopback mode
		OFF	ONU normal receive optical sensitivity
LAN	GREEN	OFF	LAN link down
		ON	LAN link up
		BLINK	Data is being transmitted
ALARM	RED	OFF	Normal operating state
		ON	Device running fault
		BLINK	ONU firmware is in upgrading process