

SNR-ONU-EPON-4F-RF



Brief Views

The ONU is mainly designed for FTTH, FTTO application. It supports 1000Base-PX20 standard with 1:64 maximum optical splitting ratio and 20km distance, and provides 1 uplink GE PON port.

It works together with OLT to realize flexible network structure and maintenance and provide total FTTx solutions.

It is built in CATV Receiver to realize the analog or DVB TV signals transmission.

It adopts single fiber WDM technology with downlink wavelength 1550nm and 1490nm, uplink wavelength 1310nm. It only needs one-core fiber to transmit data and CATV service.

ONU has 1 PON port, four 10/100BASE-T ports and one CATV output.

Functional Feature

- In compliance with IEEE802.3ah Standard and CTC2.1
- Up to 20KM transmission Distance
- Support VLAN and IGMP
- Support port isolation between different ports
- Integrated OAM remote configuration and maintenance function
- Plug and play, integrated auto detecting, auto configuration, and auto firmware upgrade technology
- EMS network management based on SNMP, convenient for maintenance
- Full speed non-blocking switching.
- Support QinQ VLAN, 1:1 VLAN, VLAN reusing, VLAN trunk, etc.
- Integrated port monitoring, port mirroring, port rate limiting, port SLA, etc.
- Support auto polarity detection of Ethernet ports (AUTO MDIX).
- Integrated IEEE802.1p QoS with four level priority queues.
- Support IPv4 IGMP snooping and IPv6 MLD snooping.

◇ CATV Service Functions

- Turn on/off RF output remotely
- Wavelength: 1550 +/- 10nm
- Optical return loss: >45dB
- Input optical power: -15dBm ~ 0dBm
- RF frequency: 47MHz ~ 1000MHz

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- RF output level: 84dBuV (@-5dBm@85MHz)
- CNR: >47dB (@-5dBm@ DS22 Channel)
- CSO: >60dBc (@-5dBm@ DS22 Channel) ■ CTB: >60dBc (@-5dBm@ DS22 Channel)
- RF output return loss: >14dB
- RF impedance: 75Ohm

Specification

	Item	Parameter
Interface	PON Interface	1 EPON optical interface Meet 1000BASE-PX20+ standard Symmetric 1.25Gbps upstream/downstream SC single-mode fiber split ratio: 1:64 Transmission distance 20KM 4*10/100M auto-negotiation Full/half duplex mode
	User Interface	RJ45 connector Auto MDI/MDI-X 100m distance
Performance Parameters	Power Interface	1 RF output Female F-Type Connector 12V DC Power supply Wavelength: Tx 1310nm, Rx1490nm
	PON Optical Parameter	Tx Optical Power: -1~4dBm Rx Sensitivity: -27dBm Saturation Optical Power: -3dBm Connector Type: SC Optical Fiber: 9/125 μ m single-mode fiber
	Data Transmission Parameter	PON Throughput: Downstream 950Mbps; Upstream 930Mbps Ethernet: 100Mbps Packet Loss Ratio: <1*10E-12 latency: <1.5ms
Network Management	Business Capability	Layer 2 wire speed switching Support VLAN TAG/UNTAG, VLAN conversion Support Port-based speed limitation Support Priority classification Support storm control of broadcast Support link detection
	Management Mode	Support IEEE802.3 QAM, ONU can be remotely managed by OLT Support Remote management through SNMP and Telnet Local management
Physical Features	Management Function	Status monitor, Configuration management, Alarm management, Log management
	Indicator	LED Indicator
	Shell	PWR, SYS, PON, LAN1~LAN4, CATV
	Power	Plastic casing External 12V 0.5A AC/DC power supply adapter Power consumption: < 4.3W
	Dimension and Weight	Item Dimension: 200mm(L) x 140mm(W) x33mm (H) Item weight: 0.35kg

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Environmental Specifications

Operating temperature: 0 to 50 °C

Storage temperature: -40 to 85 °C

Operating humidity: 10% to 90% (Non-condensing)

Storage humidity: 10% to 90% (Non-condensing)