SOFTEL

xPON Daul Mode ONU 1GE Port + CATV
ONT-1GE-RF

Product Description:

ONT-1GE-RF is a residential gateway device with routing functions for xPON ONU and LAN Switch for residential and SOHO users, which is in line with ITU-T G.984 and IEEE802.3ah.

The uplink of ONT-1GE-RF provides one PON interface, while downlink provides one Ethernet and RF interface. It can realize optical access solutions such as FTTH (Fiber To The Home) and FTTB (Fiber To The Building). It fully integrates the reliability, maintainability and security design of carrier-grade equipment, and provides customers with the last kilometer of broadband access to residential and corporate customers.

- Compliance with IEEE 802.3ah(EPON) & ITU-T G.984.x(GPON) standard
- Support IPV4 & IPV6 Management and transmission
- Support TR-069 remote configuration and maintenance
- Support Layer 3 gateway with hardware NAT
- Support Multiple WAN with Route/Bridge mode
- Support Layer 2 802.1Q VLAN, 802.1P QoS, ACL etc
- Support IGMP V2 and MLD proxy/ snooping
- Support DDSN, ALG, DMZ, Firewall and UPNP service
- Support CATV interface for video service
- Support bi-directional FEC

- Support docking compatibility with OLT of various manufacturers
- Support automatically adapt to the EPON or GPON mode used by the peer OLT
- Support multiple wan configuration
- Support WAN PPPoE/DHCP/Static IP/Bridge mode.
- Support CATV video service
- Support fast transmission of hardware NAT

Technical Parameters:

Hardware Specifications:
Interface: 1* G/EPON+1*GE+1*RF
Power adapter input: 100V-240V AC, 50Hz-60Hz
Power Supply: DC 12V/1A
Indicator light: POWER/PON/LOS/LAN1/RF/OPT
Button: Power switch Button, Reset Button
Power Consumption: <18W
Working temperature: -20℃ ~ +55℃
Environment humidity: 5% ~ 95% (non-condensing)

Dimension：157 mm x 86 mm x28 mmm (L×W×H Without antenna)
Net Weight：0.15Kg

PON Interface:
Interface Type: SC/APC, CLASS B+
Transmission distance: 0～20 km
Working wavelength: Up 1310 nm；Down 1490 nm；CATV 1550 nm
RX Optical power sensitivity: -27dBm
Transmission rate:
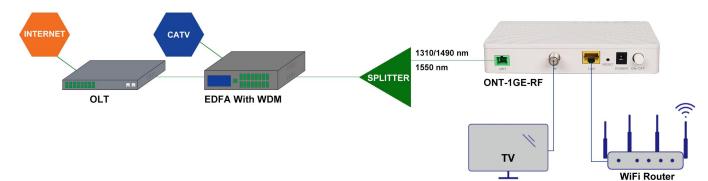GPON: Up 1.244Gbps；Down 2.488Gbps EPON: Up 1.244Gbps；Down 1.244Gbps

Ethernet Interface:
Interface type：1* RJ45
Interface parameters: 10/100/1000BASE-T

CATV Interface:
Interface type: 1*RF
Optical receiving wavelength: 1550 nm
RF output level : 80±1.5dBuV
Input optical power: +2~-15dBm
AGC range: 0~-12dBm
Optical reflection loss >14
MER: >31@-15dBm

Network Application：