SOFTEL

XPON ONT WIFI 2.4/5G

ONT-4GE-RFDW

Technical Specifications

1. Overview

ONT-4GE-RFDW is launched to be oriented to multi-service integration network as an optical network unit device, which belongs to XPON HGU terminal for FTTH/O scenario. It configures four 10/100/1000Mbps ports, WiFi (2.4G+5G) port and RF interface that providing with high-speed data services and high-quality video services to users.

Hardware parameters

Dimension	220mm x 150mm x 32mm(Without antenna)
Weight	Approximately 310g
Working environment temperature	0℃～+40℃
Working environment humidity	5% RH～95% RH, non-condensing

Power adapter input level	90V～270V AC，50/60Hz
Device power supply	11V～14V DC，1 A
Static power consumption	7.5 W
Maximum power consumption	18 W
Interfaces	1RF+4GE+Wi-Fi(2.4G+5G)
indicator light	POWER/PON/LOS/LAN/WLAN/RF

Interface parameters

PON interface	• Class B+ • -27dBm receiver sensitivity • Wavelength: Upstream 1310nm; Downstream 1490nm • Support WBF • Flexible mapping between GEM Port and TCONT • Authentication method:SN/password/LOID(GPON) • Two-way FEC(Forward error correction) • Support DBA for SR and NSR
Ethernet port	• Stripping based on VLAN Tag/Tag for Ethernet port. • 1:1VLAN/N:1VLAN/VLAN Pass-through • QinQ VLAN • MAC address limit • MAC address learning
WLAN	• IEEE 802.11b/g/n • 2×2MIMO • Antenna gain：5dBi • WMM(Wi-Fi multimedia) • Multiple SSID multiple • WPS
RF interface	• Supports standard RF interfaces • Support hd data streaming

5G parameters

Network standard	IEEE 802.11ac
Antennas	2T2R, support MU-MIMO
Maximum supported rates	20M:173.3Mbps 40M:400Mps 80M:866.7Mbps
Data modulation type	BPSK QPSK 16QAM 64QAM 256QAM
Maximum output power	≤20dBm
Typical channel (Customized)	36、40、44、48、52、56、60、64、100、104、108、112、116、120 、124、128、132、136、140、144、149、153、157、161、165
Encryption mode	WPA、WPA2、WPA/WPA2、WEP、NONE
Encryption type	AES、TKIP

2. Function Data

Intelligent interconnection
- WiFi intelligence coverage
- Support HD data streaming
- Any port any service
- Parental control
- L2/L3(IPv4) re-transmission: 1G forward，2G backward

Properties for three layers
- PPPoE/static IP/DHCP address access
- NAT/NAPT
- ALG,UPnP
- DDNS/DNS server/DNS client
- IPv6/IPv4 dual-stack,DS-Lite
- Static route/default route

Multicast
- IGMP v2/v3snooping
- IGMP v2proxy

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- IGMP v3proxy
- MLD v1/v2snooping

Qos
- Ethernet port speed limit
- 802.1p priority
- SP/WRR/SP+WRR
- Broadcast message speed limit

Security
- SPIFirewall
- MAC/IP/URL address filtering

O&M
- OMCI/WebUI/TR069

Powersaving
- Indicator light energy-efficient
- Timing switch