

# RPU-7421W

## Triple-Play EPON ONU



### Product Description

RPU-7421W series ONU products fully comply with IEEE 802.3-2005 and the China Telecom EPON device technical specification (V2.1). It is operative, manageable and maintainable at telecommunication level, is a compatible with 802.11b/g wireless routers and VoIP phones EPON HGU (home gateway) device, to provide broadband connectivity to provide users with data, voice, video and other services, and high-speed wireless home and office network connection, suitable for home and business use of the network environment is a multi-service operators to launch a portal.

### Application

1. FTTx PON network

### Features&Parameters

#### Port Features

1. 1 PON ports (1.25G)
2. 4 10/100M Ethernet port
3. 1 CATV port
4. 2 FXS port can connect two telephone
5. 1 FXO port you can access an outside line to support power-down to escape
6. 1\*10/100M Ethernet interface (v-port management for the VOIP port)
7. 1 wireless routing interface.

#### Optical Parameters

1. Support single fiber bi-directional wavelength division multiplexing (single fiber three-way) transmission
2. Interface: SC/PC, SC/APC (CATV type ONU)
3. Maximum split ratio: 1: 32
4. Rate: longitudinal symmetry 1.25 Gbps
5. Send wavelength: 1310nm
6. Receive wavelength: 1490nm
7. Output Power: - 1~+4dBm
8. Receiver sensitivity: <- 26dBm
9. OLT and ONU maximum distance between the support 20km

#### CATV RF Parameters

1. RF frequency: 45~1000MHz.
2. Output level 85dBuV (input-6dbm)
3. AGC working range 10dB CNR  $\geq$ 46dB@-6dBm (input)

### Ethernet Service Features

1. Full speed non-blocking switching.
2. 1K MAC address table.
3. 64 full range VLAN ID.
4. Support QinQ VLAN, 1:1 VLAN, VLAN reusing, VLAN trunk, etc.
5. Integrated port monitoring, port mirroring, port rate limiting, port SLA, etc.
6. Support auto polarity detection of Ethernet ports (AUTO MDIX).
7. Integrated IEEE802.1p QoS with four level priority queues.
8. Support IPv4 IGMP snooping and IPv6 MLD snoops.

### POTS Service Features

1. Call protocol: SIP (IMS compatible), seamless compatible with all popular call agent.
2. Integrate heartbeat function and support active/standby call agent.
3. Voice coding: ITU-T G.711/G.723.1 (5.3K/6.3Kbit/s)/G.729, auto-negotiate with call agent.
4. Echo cancellation exceeding ITU-T G.165/G.168-2002, up to 128ms tail length.
5. Support high/low speed fax/Modem, bypass fax, and T38 fax.
6. Support RFC2833 and redundant RFC2833, difference rings, MD5 authentication, call forward, call waiting, hot-line call, alarm clock, and all kinds of value-added voice service.
7. Multi-party conferencing.
8. Line testing according to GR-909.
9. IP address assignment: dynamic PPPoE/DHCP Client and static IP.
10. Support WEB, CLI, TR069.
11. Integrated OAM, XML, DHCP option 66&67 for auto configuration and firmware upgrade.
12. Call loss is less than 0.01%.

### Wireless Features

1. Support Standard: IEEE 802.11 b/g, rate: 5.4 Mbps, the maximum access capacity of 13.

### Other Features

1. Certification: Complies with CE, FCC, ROHS and other standards
2. EMC/EMI: meet VCCI Class B, FCC Part 15 B standard
3. Safety: UL 60950 security specifications
4. lightning surge voltage protection: meet ITU-TK. 21 standard

### Physical Features

1. Physical dimension: 283\*148\*30 (L×W×H, unit: mm)
2. Power supply: 5VDC
3. Power consumption: 10W
4. Temperature:  
Working temperature: -10~55℃  
Storage temperature: -30~60℃  
Relative humidity: 10~90% (non-condensing)