

Outdoor GPON ONU with PoE

RT007

Overview

Outdoor GPON ONU with PoE is an outdoor xPON Optical Network Terminal designed for the FTTC scenario. Designed for mounting in outdoor environments, it supports security and traffic cameras, digital signage, and access points. With ITU-T G.984.X standard, hardened design, it ensures 2.5 Gbps downstream and 1.25 Gbps upstream performance even in extreme conditions. Its 4 PoE-enabled Gigabit ports (30 W single port output up to 75 W 4 ports output) makes it ideal for outdoor communication links and high-density deployments.

Benefits

Compliant with ITU-T G.984.x (G.984.5 support)

2.5 Gbps downstream rate, 1.25 Gbps upstream rate

4 × 1000M Ethernet ports (IEEE802.3af/at) with PoE

Remote PoE Mode A/B Selection

SGS**IP68**

Technical Parameters

Product Information	
RT007SC-LV	Optical Connector - SC/UPC
	Power Supply - 40~90VAC or 110VAC
RT007LC-LV	Optical Connector - LC/UPC
	Power Supply - 40~90VAC or 110VAC
RT007SC-HV	Optical Connector - SC/UPC
	Power Supply - 220VAC
RT007LC-HV	Optical Connector - LC/UPC
	Power Supply - 220VAC
Optical	
PON Interface	ITU-TG.984.x Standard - Class B+
	Compliant with SFF-8472
	SC/UPC interface - Uplink 1310 nm/downlink 1490 nm
	Receiving sensitivity: ≤ -28 dBm
	Transmitting power: 0.5~5 dBm
Layer 2 Bridging	
MAC	Support Ethernet data frame filtering based on port, SA/DA
	Support 2000 byte MTU
	Compliant with IEEE 802.3as
	4K MAC address list
VLAN	Support ingress/egress 802.1p tag on each port
	Support ingress/egress 802.1q tag on each port
	Support double tagging, compliant with IEEE 802.1ad
Port	Support bandwidth control
	Support port mirroring
QoS	Support forwarding traffic classification via SA/DA IP, SA/DAMAC, VLAN priority, and DSCP
	Support forwarding traffic class into GEMPORT & TCONT

Technical Parameters

Ethernet	
Standard	IEEE802.3 af/at
LAN	4 × 10/100/1000BASE-T
	Support Auto-negotiation
	Support MDI/MDIX Auto-detection
	Maximum 100 m transmission distance
Hardware	
Power	40 V ~ 120 V wide range AC input voltage
Power Dissipation	≤ 10 W & Provide 75 W PSE output
Dimension	L × W × H: 11.22 inches × 7.87 inches × 4.72 inches (28.5 cm × 20 cm × 12 cm)
Operating Temperature	-40 °F ~ 140 °F (-40 °C ~ 60 °C)
Storage Temperature	-40 °F ~ 185 °F (-40 °C ~ 85 °C)
Operating Humidity	IEEE802.3 af/at
Storage Humidity	IEEE802.3 af/at
Management	
Management	Support WEB, OMCI, Telnet, console management
	Support OMCI, FTP remote upgrade
	Support dual image backup & alternative image rollback
FIT AP Features	
FIT AP Zero Configuration	Support
DHCP Discover	Support
DNS Discover	Support
Static IP Discover	Support

Technical Parameters

QoS	
802.11e	Support WMM
QoS Policy Map	Support different SSID/VLAN mapping different QoS policy
User Numbers Load Balancing	Support
Flow Load Balancing	Support
Safety Features	
WEP Encryption	Support Web/SNMP/SSH/CLI/Telnet
WPA Encryption	Support local maintenance and remote maintenance
Authentication Mode	Support local log, log host, log file export
MAC Address Filtering	Support
VLAN	Support local maintenance and remote maintenance
User Isolation	Support local log, log host, log file export
Broadcast Suppression	Support
Packet Filtering	Support local log, log host, log file export
SSID Hide	Support
RF Features	
Receiving Sensitivity	802.11b: ≤ -97 dBm@1 Mbps; ≤ -89 dBm@11 Mbps
	802.11a/g: ≤ -91 dBm@6 Mbps; ≤ -75 dBm@54 Mbps
	802.11an (HT20): ≤ -91 dBm@MCS0; ≤ -68 dBm@MCS8
	802.11an (HT40): ≤ -89 dBm@MCS0; ≤ -64 dBm@MCS9
	802.11ac (VHT80): ≤ -85 dBm@MCS0; ≤ -60 dBm@MCS9

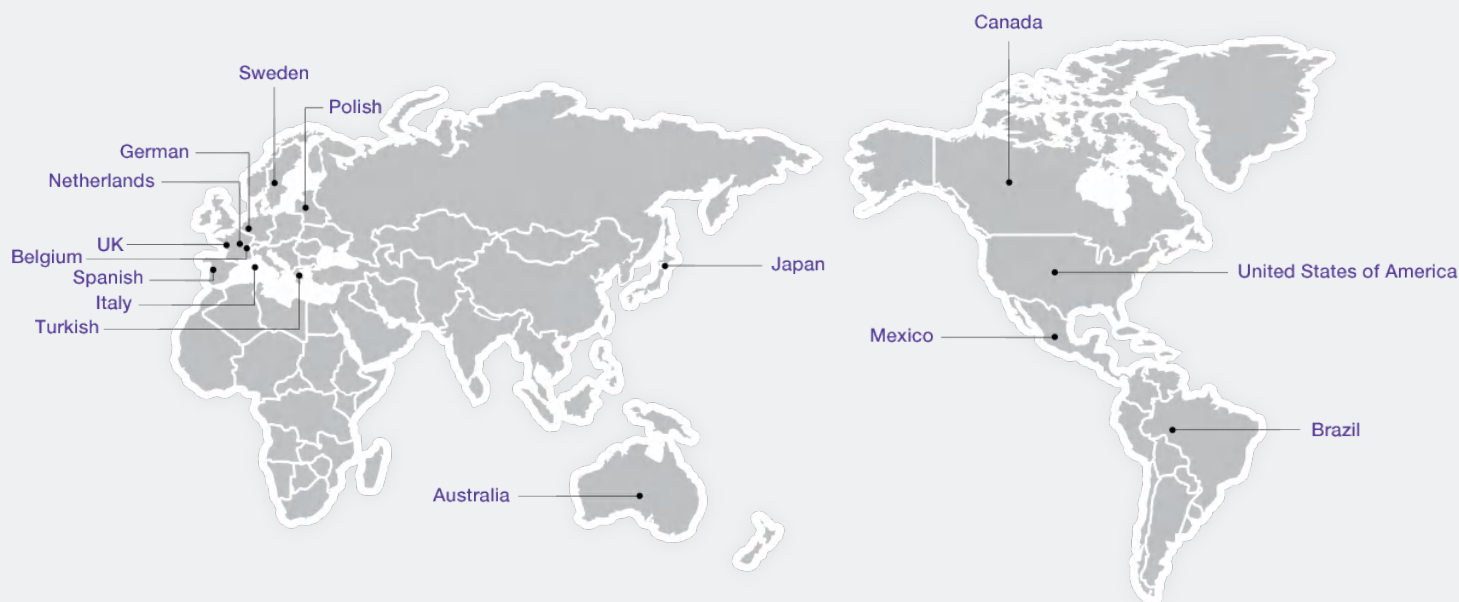
Technical Parameters

AP Basic Function

Roaming	Support
Multicast	IGMP-SNOOPING
Router Mode	Support
VLAN	Support
STP	IGMP-SNOOPING
Auto Discovering	Support (DHCP option/DNS/static ip/broadcast)
Channel/Frequency Adjust	Support
Load Balancing	Support local balancing based on user number and flow rate
Flow Control	Support flow control based on user IP
Routing Protocol	Support static routing

Administration

Network Management	Support Web/SNMP/SSH/CLI/Telnet
Maintenance Mode	Support local maintenance and remote maintenance
Log Function	Support local log, log host, log file export
Statistical Information	Support

 <https://www.vcelink.com>

Company Profile

HANGZHOU HONGJIE ELECTRONICS CO., LTD, established in 2006, is headquartered in Hangzhou, China. Under its brand "VCELINK," the company specializes in the production and sale of high-quality network accessories, network cables, optical cables, patch cords, audio-video accessories, as well as various types of tools. These products are primarily used in the fields of structured cabling, computers, and the electronics industry. VCELINK offers personalized customization services to its customers, and in addition to online direct purchases, users can also choose bulk procurement or customized services, all aimed at meeting the unique needs of various customers.

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