Mini Single Pon GPON OLT VCELINK

RT008

Overview

The VCELINK GPON OLT is a compact, high-performance GPON Optical Line Terminal (OLT) designed for fiber access networks. It supports up to 256 ONUs via two GPON ports with a 1:128 split ratio and complies fully with ITU-T G.984/G.988 standards and FSAN requirements. With two Gigabit Ethernet ports and one 10G SFP+ uplink, it ensures fast and flexible connectivity. The front panel features a status screen, LED indicators, and multiple port types for easy monitoring and operation. This OLT supports Layer 2 switching, secure remote management, and built-in diagnostics—making it ideal for ISPs and enterprise access scenarios.

CE

Benefits

Supports up to 128 ONUs with a 1:128 split ratio GPON port

Three uplink ports: 2 GE + 1 10GE for fast, flexible backhaul

Long-distance GPON support with up to 20 km transmission

Real-time status display with built-in screen and LED indicators

Easy maintenance with device upgrades, logs, and fault diagnosis

Smart management via CLI, Web, Telnet, SSH, and MQTT

Technical Specification

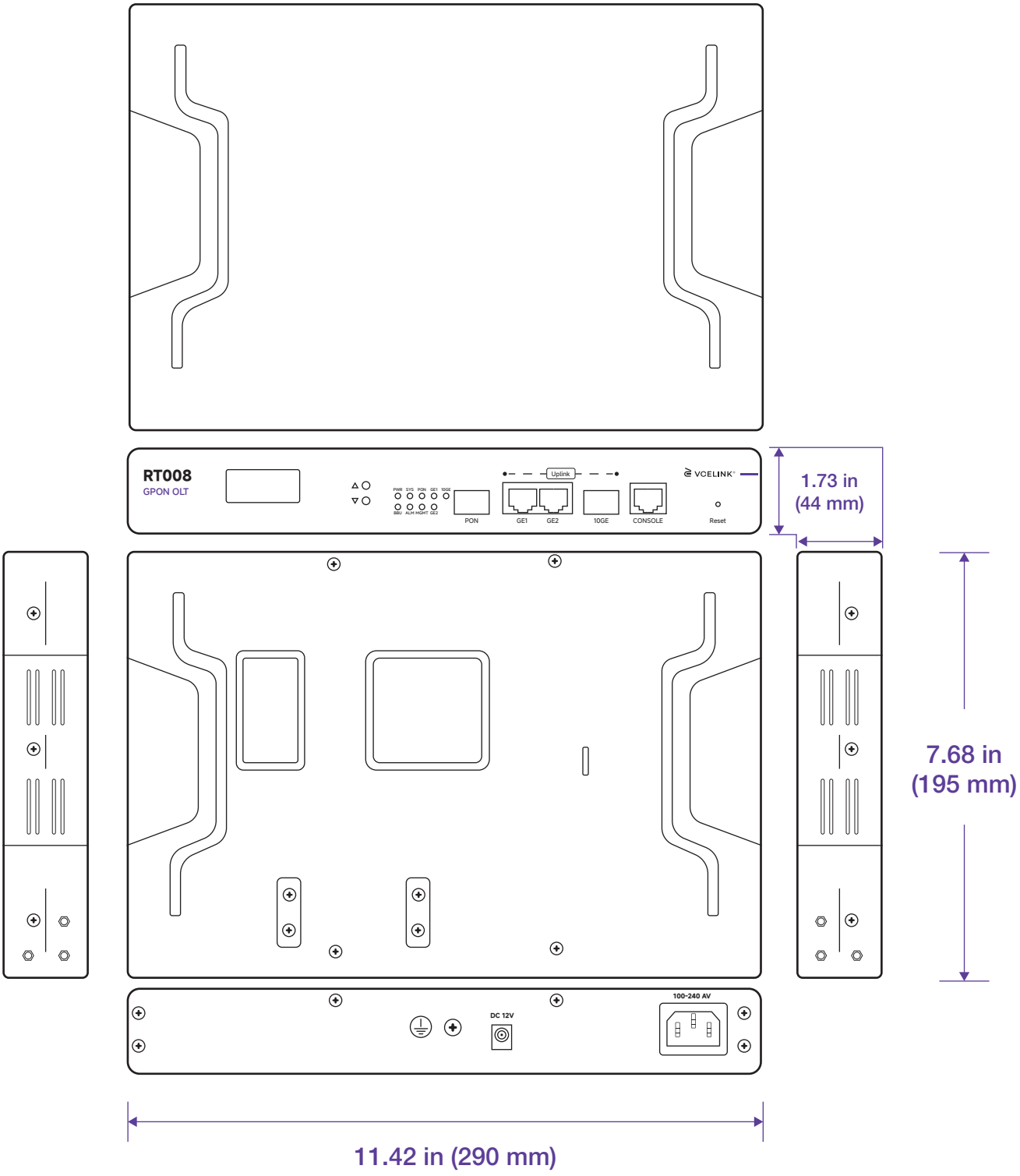
Parameter	Value
Product Type	GPON Optical Line Terminal (OLT)
Compliance	ITU-T G.984, G.988
	FSAN-compliant architecture
	Compatible with most ONUs in the market
LED Indicators	PWR (Power), BBU (Backup Battery Unit), SYS (System Status), ALM (Alarm), PON (PON Port Status), MGMT (Management Port), GE1 (Gigabit Ethernet Port 1), GE2 (Gigabit Ethernet Port 2), 10GE (10-Gigabit Ethernet Port)
Interfaces	1 × GPON Port (SFP interface, SC/UPC, supports Class B+/C+/C++) 2 × RJ45 Ethernet Ports (GE1 & GE2, 10/100/1000M auto-negotiation) 1 × 10GE SFP+ Port (XGE) 1 × RJ45 CONSOLE Port 1 × RST Reset Hole
Hardware	
Dimensions	11.42 inch × 7.68 inch × 1.73 inch(290mm × 195mm × 44mm) (L × W × H)
Weight	3.75 lbs (1.70 kg)
Uplink Ports	2 × RJ45 GE Ports (10/100/1000 M)
	1 × SFP+ 10GE Port
PON Port	1 × SFP slot (SC/UPC)
Management	1 × RJ45 CONSOLE Port
Reset	1 × RST Hole
Backplane Bandwidth	27.75 Gbps
PON Interface	
Interface Standard	ITU-T G.984.2 Class B+/C+/C++
Max Splitting Ratio	1: 128
Transmission Distance	Up to 20 km
Downstream Rate	2.5 Gbps
Upstream Rate	1.25 Gbps
Wavelength (Tx / Rx)	1490 nm / 1310 nm
Connector Type	SC/UPC
Fiber Type	9/125 μm Single Mode Fiber (SMF)

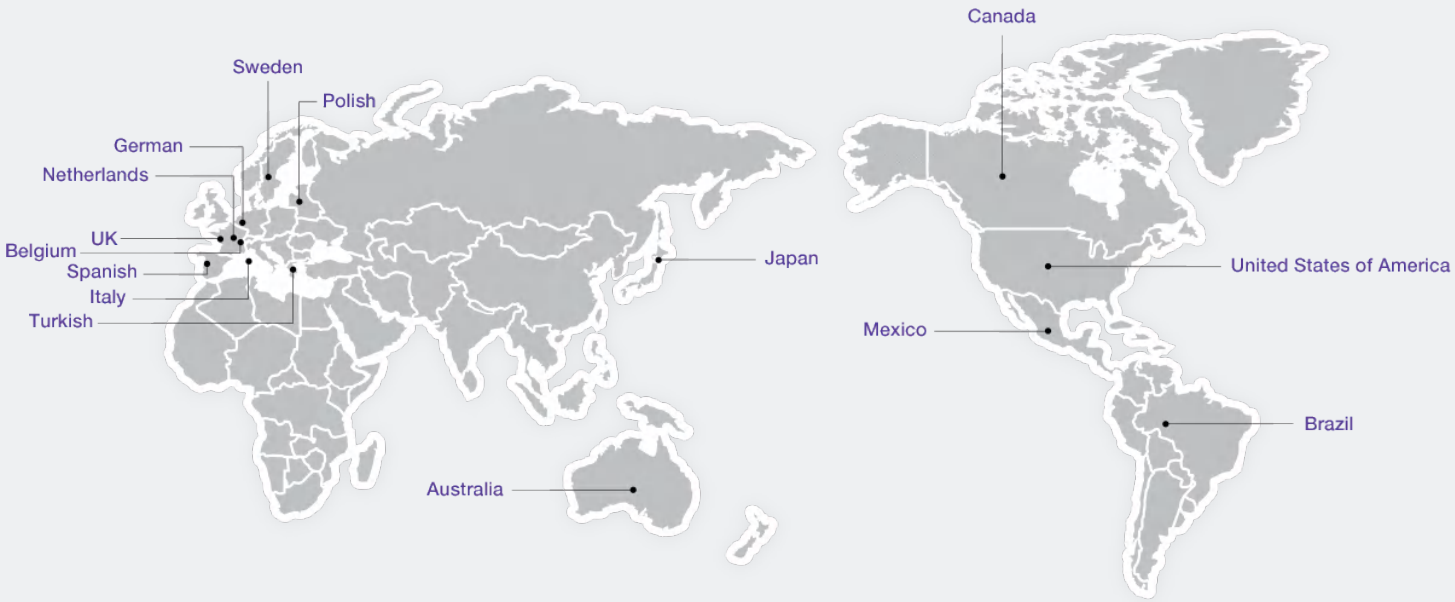
Technical Specification

Parameter	Value
Optical Power (Tx)	B+: +1.5~+5 dBm / C+: +3~+7 dBm / C++: +4.5~+10 dBm
Sensitivity (Rx)	B+: -28 dBm / C+: -30 dBm / C++: -31 dBm
Saturation Power	B+: -8 dBm / C+: -12 dBm / C++: -10 dBm
Power Supply	
AC Input	100V~240V, 47~63 Hz
Environmental Conditions	
Operating Temperature	5°F ~ 122°F (-15°C ~ 50°C)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Humidity	5% ~ 90% (Non-condensing)

Technical Specification

Unit	in/mm





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.

Copyright © VCELINK.COM All Rights Reserved.