ComX Computers
Product Specification Sheet

VSOL-V2801RD

VSOL Single Port xPON ONU

Product Overview

VSOL Single Port xPON ONU, V2801RD, 12V / 0.5A PSU included, 1x xPON Port (EPON PX20+ and GPON Class B+), SC Single Mode, SC/UPC Connector, 1x Gigabit RJ45 connectors











Specifications

Overview Summary:

The VSOL V2801RD Single-Port xPON ONU provides seamless connectivity for Fibre-to-the-Home (FTTH) and Fibre-to-the-Building (FTTB) networks. Featuring dual-mode support for both GPON PX20+ and EPON Class B+, it automatically adapts to the network without manual configuration. With a built-in Gigabit Ethernet port, it ensures reliable high-speed internet access. This ONU offers compatibility with major Optical Line Terminals (OLTs) from Huawei, ZTE, and Fiberhome. For network administrators, its remote management capabilities, including OMCI and TR069, allow for easy monitoring, configuration, and maintenance. Designed for long-term stability, the V2801RD is a cost-effective solution for service providers aiming to enhance their fibre optic access networks. Shop now for a secure and high-performance ONU that meets your connectivity needs.

Performance tier: High-speed, secure, dual-mode connectivity

Uses: Fibre-to-the-Home (FTTH), Fibre-to-the-Building (FTTB) networks, internet service provider deployments, high-speed internet access, secure network management

Overview:

VSOL V2801RD Single-Port xPON ONU: Reliable, Secure, and High-Speed Connectivity for FTTH and FTTB Networks
The VSOL V2801RD is a versatile and efficient single-port xPON Optical Network Unit (ONU) designed specifically for Fibre-to-the-Home (FTTH) and Fibre-to-the-Building (FTTB) installations. It provides seamless support for both GPON and EPON networks, adapting automatically without the need for manual configuration. With a built-in Gigabit Ethernet port, the V2801RD delivers high-speed internet access to end users, ensuring smooth performance for a variety of applications.

Description:

The V2801RD offers impressive flexibility, supporting both GPON PX20+ and EPON Class B+ standards, making it compatible with major Optical Line Terminals (OLTs) from leading manufacturers such as Huawei, ZTE, and Fiberhome. Its remote management capabilities, including support for OMCI and TR069 protocols, allow for easy monitoring, configuration, and maintenance. Designed for reliable, long-term operation, this ONU is an ideal choice for service providers looking to enhance their fibre optic access networks.

Features:

Key Benefits of the VSOL V2801RD ONU:

- Dual-mode support: Works with both GPON and EPON networks automatically.
- Gigabit Ethernet port: Ensures high-speed, reliable internet access.
- Broad compatibility: Compatible with major OLT brands like Huawei, ZTE, and Fiberhome.
- Remote management: OMCI and TR069 support for easier configuration and monitoring.
- Security-focused: Built to prevent rogue ONTs and improve network security.
- Durability: Designed for a wide operating temperature range to ensure stable, long-term performance.
- Flexible network design: Supports both Bridge and Router modes for adaptable deployment.

Designed for Flexibility and Security
The VSOL V2801RD ONU offers a high level of flexibility in its deployment options. It supports both the HGU (Home Gateway Unit) and SFU (Single Family Unit) features, which makes it a versatile choice for various network configurations. Whether you are setting up a residential FTTH or a larger FTTB network, this device adapts to your needs.

In terms of security, the V2801RD incorporates advanced features to prevent unauthorized access and ensure the integrity of

your network. It helps protect against rogue ONTs, safeguarding your entire optical network from potential vulnerabilities.

Optimized for Stable and Reliable Performance
The V2801RD is built for long-term stability and dependable connectivity. Its wide operating temperature range ensures that the device can function effectively in diverse environmental conditions, making it an excellent choice for outdoor or challenging installations. Whether you're managing a small-scale residential setup or a large-scale commercial deployment, this ONU guarantees stable service and secure connections.

Cost-Effective Solution for Fibre Access Networks
With its combination of robust features, high compatibility, and easy remote management, the VSOL V2801RD offers a cost-effective solution for service providers expanding their fibre optic networks. It minimizes the need for manual intervention and reduces operational complexity, ultimately saving time and resources for network administrators.

Technical Specifications of the V2801RD ONU:

- Model: V2801RD
- xPON Compatibility: GPON PX20+ and EPON Class B+
- Port: 1 x Gigabit Ethernet (RJ45)
- Connector Type: SC Single Mode, SC/UPC
- Power Supply: 12V/0.5A PSU included
- Management: Supports OMCI and TR069 for remote configuration and monitoring
- Temperature Range: Wide working temperature design
- Security: Rogue ONT prevention

In summary, the VSOL V2801RD ONU is an ideal choice for providers seeking a secure, reliable, and high-performance terminal device for fibre optic networks. With its dual-mode support, remote management, and secure operation, it provides the perfect balance of performance and flexibility for modern FTTH and FTTB network deployments.

Specifications:

© 2025 Respective owners and brand holders. This table has been carefully researched and generated by ComXpert International CC (http://www.comx.co.za), however, errors and omissions may occur. Only references to South Africa apply. All products are sourced in South Africa from the official suppliers and the warranty is that of the local supplier. E&OE. This table and our site's content may be used on condition that this notice and link remains intact and unaltered.

Specifications	
Product Code	VSOL-V2801RD
Hardware Parameter	
Dimension	82mm x 82mm x 25mm(L x W x H)
Net weight	85g
Operating condition	Operating Temp: -10 ~ +55degreesC
	Operating Humidity: 5 ~ 95%(non-condensed)
Storing condition	Storing temp: -40 ~ +70degreesC
	Storing humidity: 5 ~ 95% (non-condensed)
Power adapter	DC 12V, 0.5A, external AC-DC power adaptor
Power supply	<=4W
Interface	1GE
Indicators	SYS, LINK/ACT, REG

Interface parameter	
PON interface	1XPON port(EPON PX20+ and GPON Class B+)
	SC single mode, SC/UPC connector
	TX optical power: 0~+4dBm
	RX sensitivity: -27dBm
	Overload optical power: -3dBm(EPON) or -8dBm(GPON)
	Transmission distance: 20KM
	Wavelength: TX 1310nm, RX1490nm
LAN interface	1*GE, Auto-negotiation RJ45 connectors
Function Data	
XPON Mode	Dual mode,Auto-access to EPON/GPON OLT
Uplink Mode	Bridging and Routing Mode
Abnormal protection	Detecting Rogue ONU, Hardware Dying Gasp
Firewall	DDOS, Filtering Based on ACL/MAC/URL
Product Feature	
Basic	Support MPCP discover ister
	Support authentication Mac/Loid/Mac+Loid
	Support Triple Churning
	Support DBA bandwidth
	Support auto-detecting, auto-configuration, and auto firmware upgrade
	Support SN/Psw/Loid/Loid+Psw authentication
Alarm	Support Dying Gasp
	Support Port Loop Detect
	Support Eth Port Los
LAN	Support Port rate limiting
	Support Loop detection
	Support Flow control
	Support Storm control
VLAN	Support VLAN tag mode
	Support VLAN transparent mode
	Support VLAN trunk mode(max 8 vlans)
	Support VLAN 1:1 translation mode(<=8 vlans)
	Auto VLAN detection
Multicast	Support IGMP v1/v2/Snooping
	Max Multicast vlan 8
	Max Multicast Group 64

QOS	Support 4 queues
	Support SP and WRR
	Support 802.1P
L3	Support IPv4
	Support DHCP/PPPOE/Static IP
	Support Static route
	Support NAT
Management	Support CTC OAM 2.0 and 2.1
	Support ITUT984.x OMCI
	Support WEB
	Support TELNET
	Support CLI

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page: https://www.comx-computers.co.za/VSOL-V2801RD-VSOL-Single-Port-xPON-ONU-p-331363.php

Images and specifications are provided for reference and are subject to change without notice. E&OE.

Terms of Use: https://www.comx-computers.co.za/terms-of-use.php
Terms of Sale: https://www.comx-computers.co.za/terms-of-sale.php

PDF generated: 2026-11-12 11:13:01.

This PDF was generated automatically and may include content prepared or assisted by automated or AI-based systems. While reasonable care is taken to ensure accuracy, errors or omissions may occur.

For the most current and accurate product information, please refer to the product information available on our website. If any specification or other information differs from information published elsewhere, please confirm the details with us before relying on the information or making a purchasing decision.

If you identify an error or discrepancy, please report it to us so that we may investigate and correct it where necessary.