



ITU-T G.984.x
GPON/IEEE802.3ah
EPON standard

1.25G upstream
2.5G/1.25
downstream

RTL9601B
Processor

Bridge

802.1Q VLAN,
802.1P QOS
DBA

Datasheet V1.1.5

SDN8601GR1B 1 GE G/EPON Dual Mode ONU Description:

The SDN8601GR1B is ITU-T G.984.x based or IEEE802.3ah based dual mode ONU that supports 2.5G downstream and 1.25G upstream bandwidth for GPON, supports 1.25G downstream and 1.25G upstream bandwidth for EPON. It supports dual mode (EPON and GPON), can access EPON/GPON OLTs. It also comes with 1*10/100/1000Base-Tx Gigabit Ethernet LAN port that supports 1Gbps downstream bandwidth.

Main Features:

- Comes with 1G/EPON WAN Port, support 1.25G upstream and 2.5G/1.25G downstream
- Built with the well-round Realtek chipset, low cost and high performances
- Support Rich layer 2 Management features, applicable to the biggest ISP networks
- Built based on WDM, transmitting Data/IPTV/Voice over a Single fiber, max transmission distance can reach 20Km
- Max 1:128 Fiber ratio for GPON, max transmission distance can reach 20km
- Max 1:64 Fiber ratio for EPON, max transmission distance can reach 20km
- Support FBA (Flexible Bandwidth Assignment), dynamic assign bandwidth automatically
- High security, data encrypted at upstream and downstream directions
- Support Multicast, end users can optionally apply for VOD, Video conferencing, etc.
- Easy installation and Maintenance, support remote failure detect and locate. Saving your maintenance costs.

Hardware Features:

- Fully Compatible with ,ITU-T G.984.x , IEEE802.3ah CTC 2.1, CTC 3.0 standard
- Offers 1*G/EPON SC Port, 2.5G / 1.25G Downstream, 1.25G Upstream
- Sensibility of Gepon Optical port: -2dBm to -27dBm
- Support 2Gbps Backplane bandwidth
- live LED Indicators for Power, PON, LOS and LAN
- Desktop design, Plastic housing,
- Plug and Play operation
- External Power Supply
 - Impulse Power Supply, AC 96V-260V input, DC 12V, 0.5A output
 - Support Asia, Europe, U.S, U.K, AU standard power plugs

Software Features:

- Support IEEE802.1Q VLAN, Port Based VLAN
- Support IEEE802.1P QOS, TOS, COS
- Support IEEE802.1d Spanning Tree
- Support IEEE802.1W Rapid Spanning Tree
- Support MAC address translation and MAC addresses limitation
- Support IGMP V1, V2 and IGMP Snooping for multicast
- Support IEEE802.3X full duplex, half duplex backpressure flow control
- Support MAC, IP, or TCP/UDP protocol based ACLs (Access Control protocol)
- Support Bandwidth Control
- Support CLI management, SNMP based NMS management and Monitor

Interoperable GPON OLT Models

- CHIMA SGT8000A, SGT8016A series GPON OLTs
- HUAWEI MA5680T, MA5606T, MA5683T GPON OLT
- ZTE C220, C300 GPON OLT
- Fiberhome AN5516-01, AN5516-02 GPON OLT
- ERICSSON BM1500 GPON OLT
- ZHONE MX-180/280,MXK 319, 819, 823, MXK-F1419,MXK-F1421

Interoperable Gepon OLT Models

- CHIMA SNA8800, SNA9000T series
- Huawei MA5680T, MA5683T OLTs
- ZTE C200, C220, C300 series OLTs
- Fiberhome AN5506, AN5516 OLTs
- Furukawa, Corecess GEAPON OLTs

Specifications:

Standards	IEEE 802.3, IEEE 802.3u, IEEE802.3ab, IEEE802.3ah, IEEE 802.3x, IEEE802.1Q, IEEE802.1P, IEEE802.1D, IEEE802.11b/g/n, ITU-T G.984.1, ITU-T G.984.2, ITU-T G.984.3, ITU-T G.984.4
Topology	Star Topology
Uplink Ports	1 G/EPON SC port,
Downlink Ports	1* 10/100/1000Base-Tx Gigabit LAN Port
Transmission Rate	2.5G / 1.25G Downstream, 1.25G Upstream
Transmission Distance	Maximum 20Km
LED Indicators	Link, activity, Full/half duplex, speed, and power on diagnostic function
	10Base-Tx: UTP category 3, 4, 5, up to 100m
Ethernet Cable	100Base-Tx: UTP category 5, up to 100m
	1000Base-Tx: UTP category 5, 5E, 6, up to 100m
Fiber Cable	8.3μm, 8.7μm, 9μm and 10μm single mode fiber cable
Product Measurement	9.2*7.5*2.7 cm
Packaging Box Size	10*13.8*7 cm
Power Supply	AC 96-260V, DC 12V, 0.5A, External Power Supply

		Temperature	Humidity
Temperature Humidity	Working	0°C - 45°C	10% - 90%
	Standby	-30°C - 60°C	5% - 90% RH