



IEEE802.3ah  
GEPON ONU

1\* 1.25G  
GEPON SC  
Uplink port

1\*1GE High  
Speed LAN  
Port

1:64 Fiber  
Splitting  
Ratio

802.1Q VLAN,  
802.1P QOS  
DBA

Datasheet V1.1.5

### SON801GR1B 1 GE GEPON ONU Description:

The **SON801GR1B** is a Single family Gepon ONU based on IEEE802.3ah standard. It supports 1.25Gbps upstream bandwidth and also comes with 1\*10/100/1000Base-Tx Gigabit Ethernet LAN port that supports 1Gbps downstream bandwidth.

Targeting at Triple Play market, the **SON801GR1B** has been thoroughly tested with many different Gepon OLT brands. It is fully compatible with CHIMA, Huawei, ZTE, Fiberhome , etc Gepon OLT models. It can be applied in the most complex Ethernet and Gepon technology mixed networks.

### Main Features:

- Complies with IEEE802.3ah standard, interoperable with Huawei, ZTE, Fiberhome, CHIMA GPON OLTs.
- Comes with 1\*10/100/1000Base-Tx Gigabit LAN port, offers 1Gbps downstream bandwidth
- Built with the well-round Realtek chipset, low cost and high performances
- Thoroughly tested with CHIMA, Huawei, ZTE, Fiberhome, etc Gepon OLTs, superb interoperability
- 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
- Support 1:64 fiber splitting ratio, one PON port can connect up to 64 subscriber ONUs
- 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 IEEE802.3ah, CTC 2.1, CTC 3.0 standard
- Offers 1\*1.25Gbps Gepon SC port for upstream
- Offers 1\*10/100/1000Base-Tx Gigabit Ethernet LAN for downstream
- Sensibility of Gepon Optical port: -2dBm to -27dBm
- Support 1:64 Optic fiber splitting ratio
- 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 Gepon/GPON OLT Models**

- **CHIMA** SNA8800T, SNA9000T series Gepon OLT
- **HUAWEI** MA5680T, MA5606T, MA5683T GEPON OLT
- **ZTE** C220, C300 GEPON OLT
- **Alcatel Lucent** 7342, 7360 ISAM GEPON OLT
- **Fiberhome** AN5516-01, AN5516-02 GEPON OLT
- **Ericsson** BM1500 GEPON OLT
- **Aurora** Trident7, T7-PIM-8802/COLT GEPON OLT
- **Dlink** DPN-3012-E GEPON OLT
- **Ubiquoss** C9500, C9516, C9016, C9264 GEPON OLT
- **Raisecom** ISCOM5508, ISCOM5800E, ISCOM6800 GEPON OLT
- **H3C** S3600-2P-OLT, S7502E, S7503E, S7506E, S7510E, S7506E-V GEPON OLT

Specifications:

<b>Standards</b>	IEEE 802.3ah,IEEE 802.3,IEEE 802.3u,IEEE 802.3x,IEEE 802.3z,IEEE802.1d, IEEE802.1P,IEEE 802.1Q, IEEE 802.1X,RFC1155,RFC1157,RFC1112,RFC1113		
<b>Topology</b>	Star Topology		
<b>Uplink Ports</b>	1 Gepon SC port,		
<b>Downlink Ports</b>	1* 10/100/1000Base-Tx Gigabit LAN Port		
<b>Transmission Rate</b>	1.25Gbps		
<b>Transmission Distance</b>	Maximum 20Km		
<b>LED Indicators</b>	Link, activity, Full/half duplex, speed, and power on diagnostic function		
<b>Ethernet Cable</b>	10Base-Tx: UTP category 3, 4,5, up to 100m 100Base-Tx: UTP category 5, up to 100m 1000Base-Tx: UTP category 5, 5E, 6, up to 100m		
<b>Fiber Cable</b>	8.3μm, 8.7μm, 9μm and 10μm single mode fiber cable		
<b>Product Measurement</b>	9.2*7.5*2.7 cm		
<b>Packaging Box Size</b>	10*13.8*7 cm		
<b>Power Supply</b>	AC 96-260V, DC 12V, 0.5A, External Power Supply		
<b>Temperature Humidity</b>		Temperature	Humidity
	Working	0°C - 45°C	10% - 90%
	Standby	-30°C - 60°C	5% - 90% RH