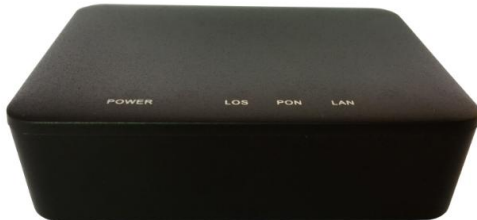


1.25Gbps
Upstream



1Gbps
Downstream



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

SON801GR 1 GE GEPON ONU Description:

The SON801GR is a Single family Gepon ONU based on IEEE802.3ah standard. It is built on-board with a Gepon transceiver that supports 1.25Gbps upstream bandwidth. It also comes with 1*10/100/1000Base-Tx Gigabit Ethernet LAN port that supports 1Gbps downstream bandwidth.

Targeting at Triple Play market, the SON801GR 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:

- Comes with 1*1.25Gbps Gepon SFF Transceiver built on-board, offering 1.25Gbps upstream bandwidth
- 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:

Standards	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		
Topology	Star Topology		
Uplink Ports	1 Gepon SC port,		
Downlink Ports	1* 10/100/1000Base-Tx Gigabit LAN Port		
Transmission Rate	1.25Gbps		
Transmission Distance	Maximum 20Km		
LED Indicators	Link, activity, Full/half duplex, speed, and power on diagnostic function		
Ethernet Cable	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		
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