



SA8133C

1GE XPON ONU Bridge/Route Mode



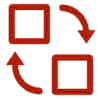
Overview

To deliver triple-play services to the subscriber in Fiber-to-the-Home or Fiber-to-the-Premises application, the GPON ONT SA8133C for SFU (Single Family Unit) incorporates interoperability, key customers' specific requirements and cost-efficiency.

Equipped with ITU-T G.984 compliant 2.5G Downstream and 1.25G Upstream GPON interface, the SA8133C ONT supports the full high speed internet access.

Compliant with standard OMCI definition, ONT SA8133C is manageable at remote side and supports the full range FCAPS functions including supervision, monitoring and maintenance.

SA8133C Highlights



Route/Bridge Dual Mode

Supporting Route/Bridge dual mode, which is capable to meet different requirements from ISPs.

1*Gigabit Ethernet Interface



Equipped 1* 10/100/1000 Base-T interface with RJ45 connector, the real throughput can reach 950Mbps



Low Cost XPON ONT

SA8133C adapts Realtek high-performance chips, which have stable performance and a competitive price.

Good compatibility



SA8133C has good third-party compatibility to work with the third party OLT

SA8133C Main Specification



SA8133C Hardware

Interface Description

WAN (Fixed Optical Connector)	SC/APC or SC/UPC
LAN	1*10/100/1000 Base-T with RJ45 connector
Reset	1*Pinhole Reset Button
Power	+12V (external AC/DC adapter)

LED Indicator

POWER PON LOS LAN

PON Interface

SFF type laser, SC/APC, or SC/UPC connector
Bosa onboard optical solution
Receiving sensitivity -28dBm (-30dBm optional), and -8dBm overload, Transmitting optical power: 0.5dBm~+5dBm
GPON: 1.244 Gbps burst mode upstream transmitter; 2.488 Gbps downstream receiver
Wavelengths: upstream 1310nm, downstream 1490nm

Ethernet Interface

1* 10/100/1000 Base-T MDI/MDIX RJ-45 port compliant
IEEE 802.3/802.3u
Hardware-based 10/100/1000, full/half, flow control auto-negotiation
Non-blocking wire-speed reception and transmission Full duplex IEEE 802.3x flow control and half-duplex backpressure flow control

SA8133C Main Specification

Power Supply

Power supply	External AC/DC power adapter 12V 0.5A
Power Consumption	less than 5W

Working Environment

Temperature	-10°C ~ 40°C
Humidity	10%~ 95% relative humidity

Installation

Desk	Desk-top
Wall	Wall-Mounted

SA8133C Software

GPON

ITU-T G.984.X standard Complaint
8 T-CONTs & 32 GEM Ports per device
Flexible mapping between GEM Ports and T-CONT Support for Multicast GEM Port
AES-128 Decryption with key generation and switching
FEC (Forward Error Correction)
802.1p mapper service profile on U/S
Activation with automatic discovered SN and password in conformance with ITU-T G.984.3
Support Multicast GEM port
Support loop detection

SA8133C Main Specification



Gateway

Multiple WAN interfaces supporting

WAN Connection: Bridge, IPOE, PPPOE

Support IPV4/IPV6 dual-stack

Support port forwarding and DHCP server for LAN devices

Support NAT and NAPT

Support ACL (Access Control List)

Support Firewall

Support ALG, DMZ, DDNS, UTP, UPNP

Ethernet/IP

802.1D bridging

VLAN tagging/detagging per Ethernet port

VLAN stacking (Q-in-Q) and VLAN Translation

IP ToS/DSCP to 802.1p mapping

Class of Service based on UNI, VLAN-ID, 802.1p bit, and combination

Marking/remarking of 802.1p

IGMP v2/v3 snooping and IGMP snooping with proxy report

Broadcast/Multicast rate limiting

SA8133C Main Specification



Management

Webpage management by default IP address

Remote access by WAN interface through HTTP and Telnet

Standard-compliant OMCI interface as defined by ITU-T G.984.4 and G.988

Compliant to TR-069, TR-098, TR-104

Two software hold with integrity checking and automatic rollback