



- 1*10/100/1000M Ethernet interface
- 1 GPON interface
- built-in FWDM
- Input optical power -18dBm~0dBm
- Support WiFi function and AGC function

CON-1133 series is fiber to the home multi service access GPON ONU. It's based on the mature, stable, high cost performance GPON technology and has gigabit Ethernet switching, WDM and HFC technology. CON-1133 series has a higher bandwidth, higher reliability, easy management and good quality of service (QoS) guarantee with technical performance of equipment meet the ITU G. 984 requirements and have good compatibility with third party manufacturers OLT.

GPON is the latest generations of access network technology. ITU-T G.984 is the standard protocol of GPON. The GPON standard differs from other PON standards in that it achieves higher bandwidth and higher efficiency using larger, variable-length packets. GPON offers efficient packaging of user traffic, with frame segmentation allowing higher quality of service (QOS) for delay-sensitive voice and video communications traffic. GPON network provides the reliability and performance expected for business services and provides an attractive way to deliver residential services. GPON enables fiber to the home (FTTH) deployments economically resulting to accelerated growth worldwide.

It adopts single fiber WDM technology with downlink wavelength 1550nm and 1490nm, uplink wavelength 1310nm . It only needs one-core fiber to transmit data and CATV service.

FUNCTIONAL FEATURE

- Support port-based rate limitation and bandwidth control;
- In compliant with ITU – T G. 984 Standard
- Support data encryption, group broadcasting, port Vlan separation ,etc.
- Support Dynamic Bandwidth Allocation (DBA)
- Support ONU auto-discovery/Link detection/remote upgrade of software;
- Support port mode of VLAN configuration
- Support power-off alarm function ,easy for link problem detection
- Support broadcasting storm resistance function
- Support port flow control
- Support ACL and SNMP to configure data packet filter flexibly
- Specialized design for system breakdown prevention to maintain stable system
- Support software online upgrading
- EMS network management based on SNMP ,convenient for maintenance

PRODUCT SPECIFICATION

Item	Parameter
PON Interface	1*GPON port, FSAN G.984.2 standard, Class B+ Downstream Data Rate: 2.488Gbps Upstream Data Rate: 1.244Gbps SC/PC single mode fiber 28dB Link loss and 30KM distance with 1:128
User Ethernet Interface	1*10/100/1000M auto-negotiation Full/half duplex mode RJ45 connector Auto MDI/MDI-X 100m distance 1 RF output Female F-Type Connector
Power Interface	12V DC Power supply
PON Optical Parameter	Wavelength: Tx 1310nm, Rx 1490nm Tx Optical Power: 0~5dBm Rx Sensitivity: -27dBm Saturation Optical Power: -8dBm Connector Type: SC Optical Fiber: 9/125μm single-mode fiber
Data Transmission Parameter	PON Throughput: Downstream 2.488Gbit/s; Upstream 1.244Gbit/s Ethernet: 1000Mbps Packet Loss Ratio: <1*10E-12 latency: <1.5ms

Business Capability	<p>Layer 2 wire speed switching</p> <p>Support VLAN TAG/UNTAG, VLAN conversion</p> <p>Support Port-based speed limitation</p> <p>Support Priority classification</p> <p>Support storm control of broadcast</p> <p>Support loop detection</p>
Network Management	<p>Support IEEE802.3 QAM, ONU can be remotely managed by OLT</p> <p>Standard compliant OMCI interface as defined by ITU-T G.984.4</p> <p>Support WEB management</p>
Management Function	Status monitor, Configuration management, Alarm management, Log management
Shell	Plastic casing
Power	<5W, 12V/0.5A power supply adapter
Physical Specifications	<p>Item Dimension: 160mm(L)*120mm(W)*32mm(H)</p> <p>Item weight: 0.3kg</p>
Environmental Specifications	<p>Operating temperature: 0 to 50°C</p> <p>Storage temperature: -40 to 85°C</p> <p>Operating humidity: 10% to 90%(Non-condensing)</p> <p>Storage humidity: 10% to 90%(Non-condensing)</p>

CATV

Item	Parameter
Wavelength	1100-1650nm
Optical return loss	>45dB
Input optical power	-18dBm~0dBm
RF frequency	47MHz~1000MHz
RF output lever	≥78dBuV (@-12~-2dBm@85MHz)
AGC control accuracy	<±1db
Flatness	<±1.5db
CNR	>41dB (@-10dBm@DS22 Channel)

CSO	>60dBc (@-10dBm@DS22 Channel)
CTB	>60dBc (@-10dBm@DS22 Channel)
RF output return loss	>14dB
RF impedance	75Ohm
AGC function	Support

ORDER INFORMATION

P/N	Description
CON-1133	ONU CATV GPON+ETH+WIFI with FAN