EPON OPTICAL NETWORK UNIT [ONU-E-1C-4L-x-x]

Fiber Products, Premise

Taikan
ESTD. 1973

Description

Ethernet Passive Optical Network (EPON) is used by network service providers for FTTH home or commercial business applications. It offers symetric 1.25 Gbps data at a low cost and high performance with easy to maintain QoS support.

Taikan's EPON ONU is a high performance, economical terminal device that has four 10/100M Ethernet Ports, one CATV port and one PON port to transmit voice, data and video services for full Triple Play Service support.
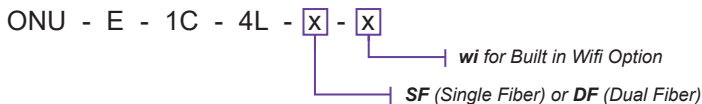
Features

- Adheres to IEEE802.3ah EPON standards
- Ethernet service Layer 2 switching and wire-speed forwarding of uplink and downlink services
- Integrated OAM remote configuration and maintenance functionality
- High rate PON: Symmetric 1.25 Gbps upstream/downstream data, VOIP, and IPTV
- ONU subscriber authentication, auto-identification, plug and play, DBA dynamic bandwidth distribution
- QoS support including traffic flow classification, priority marking, queue and dispatch, traffic shaping and traffic control,
- Wifi supports advanced 2T2R MIMO technology to enhance the throughput and coverage range for high speed data rates of up to 300Mbps
- Dual EPON ports option for increased network reliability
- Power failure alarm

Ordering Information

ONU - E - 1C - 4L - [x] - [x]

wi for Built in Wifi Option

SF (Single Fiber) or DF (Dual Fiber)

Model Number	Description
ONU-E-1C-4L-x-x	GPON Optical Network Unit, 1 CATV Port, 4 LAN Interface Ports

General Specifications

Power Supply	12 VDC
Maximum Power Consumption	8 W
Working Temperature	0 ºC ~ +55 ºC
Storage Temperature	-30 ºC ~ 60 ºC
Relative Humidity	10% ~ 90% (Non-Condensing)
Surge Protection	Power and Service Ports have Surge Protection Circuitry

EPON Specifications

Interface Type	SC/APC SMF
Maximum Splitting Ratio	1:64
Speed	Symmetric 1.25 Gbps Upstream/Downstream
Sent Wavelength	1310 nm
Received Wavelength	1490 nm
Optical Output Power	-1 ~ + 3 dBm
Receiving Sensitivity	< -27 dBm
Optical Link Budget Loss	29 dB
Farthest Distance Between OLT and ONU	20 km

Network Specifications

Subscriber Identification	**ONU IEEE802.1x**
Service Quality	**QoS IEEE802.1p, 1GMP Snooping, Ethernet port rate limit loop detection**
Dynamic Bandwidth Allocate	**DBA The biggest bandwidth of every ONU subscriber and assures proper allocation quality**
L2 Switch Function	**MAC address management: IEEE802.1q VLAN and supports 4094 VLANs, Frame filtering and suppression, Network Address Translation & Network Address Port Translation (NAPT) IP sharing**
Management Mode	**Web Server, SNMP data collection**
WAN Protocols	**PPPoE/StaticIP/PPTP/DHCP**
LAN Interface	**Standard Appliance: IEEE802.310Base-T, IEEE802.3u 100Base-Tx/Fx IEEE802.3x** **Electrical Type and Quantity: 4 RJ45, 10M/100M Ethernet network ports**

CATV Specifications

Interface Type	1 RF Output Female F Type Connector
Output Level	95 dBuV
RF Frequency	54-862 MHz
Automatic Gain Control Range	0 ~ 10 dB (CNR ≥ 46 dB @ 6 dB)
RF Impedance	75 Ohm

Wifi Specifications

Wireless Networking Standard	IEEE802.11n (Backwards compatible with IEEE802.11b/g
Frequency Band	2.4 GHz
Data Transfer Rate	300 Mbs

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