Features

- Indoor-type EPON ONT
- One Gigabit Ethernet port
- Bridge mode operation
- Low Power consumption: less than 5W
- SC/APC connector, 20Km Optic Module
- Up to 256 MAC addresses
- Dying Gasp
- High speed Internet service
- Multicast IPTV Service
- LD Shutdown (Automatic)
- QoS & CoS Features
- Compliant with 1000BASE-PX20
  according to YD/T 1475-2006-EPON.
- IEEE 802.3ah EPON Standard Compliant
- Safety/Locking Flap Bottom Cover to fix
  a fiber optic cable

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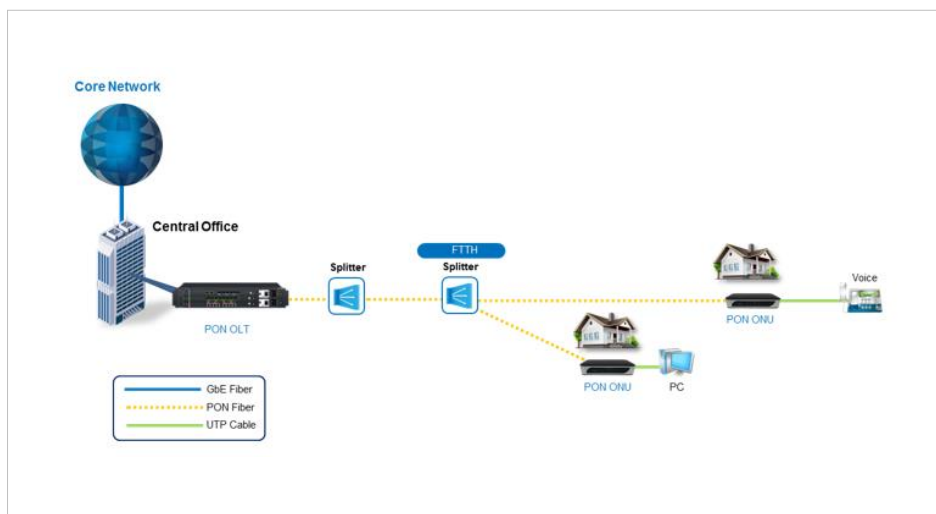oversea.group@ubiquoss.com

FTTx ONU Solution

CS-8001A

System Overview

The CS-8001A is an EPON Optical Network Terminal designed for SFU (Single Family Unit) used in home and small office environment. It provides subscriber with rich, individualized, and comfortable triple-play services including video (IPTV), voice and high speed internet access. It has a small form factor and green, energy-saving advantage.

It supports 1(one) Gigabit Ethernet (UTP, RJ45) ports to subscriber. It is connected to GEPON OLT and RN (Remote Node) via a fiber optic cable to provide TPS (Triple Play Service).

By adopting the state-of-the-art EPON technology, CS-8001A supports various features including Quality of Service (QoS) function, management function enabling prompt reactions against the problems in the system or a subscriber line, security function protecting subscriber information safe, and subscriber management function sheltering user information from illegal users.

Deployment Diagram

Specification

HW Specification
System Architecture & Console
- Line
  - 1000Base-PX20 (SC/APC)
- LAN
  - One 10/100/1000BaseTx port
  - MDI/MDIX Auto-Negotiation
- Desktop placement

Environment Condition
Power
- Switch
  - On/Off type switch
- Input
  - DC 5V 2A
- Consumption
  - 5W

Front Panel LED
- PWR
  - Power On/Off status
- Line
  - Logical Link status of PON, Loss of Optical Signal
- Data
  - PON Link and Data Transmission status
- LAN
  - LAN Link and Data Transmission status

Operating Temperature
- 0 ~ 50℃

Enclosed items
- UTP Cat.5 Ethernet Cable(RJ-45, Straight)
- Power Adaptor (Input - AC: 100 ~ 220V (± 20%))

Service and features
Standard
- IEEE 802.3ah

EPON
- IEEE802.3ah MPCP, OAM compliant
- 802.1Q VLAN
- Per LLID Filtering/Classification
- Supports up to four Logical Link IDs (LLID)
- AES-128 Downstream decryption
- Dying Gasp
- Automatic Plug and Play function for WAN PON Port (Discovery and Authorization)

Layer 2
- IEEE802.1Q VLAN
- IEEE802.1D Spanning Tree Protocol
- Support up to 256 MAC Address

Multicasting
- IGMP v1/v2, IGMP proxy/snooping for IPTV service

QoS
- IEEE802.1P
- Packet classification and marking (802.1P)
- Rate limiting

Security & Filtering
- MAC address limiting

Technical Standard and Protocol
- IEEE Std 802.3™-2002 Carrier sense multiple access with collision detection (CSMA/CD) access method and physical layer specifications
- IEEE Std 802.1D, 1998 Edition Media Access Control (MAC) Bridges
- IEEE Std 802.1Q, 2003Edition Virtual Bridged Local Area Networks
- IEEE Std 802.1w-2001 Media Access Control (MAC) Bridges — Amendment 2: Rapid Reconfiguration
- IEEE Std 802.1s™-2002 Virtual Bridged Local Area Networks— Amendment 3: Multiple Spanning Trees
- IEEE Std 802.1X-2001 Port-Based Network Access Control
- IEEE Std 802.3ah.-2004 Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications Amendment:
- Media Access Control Parameters, Physical Layers, and Management Parameters for Subscriber Access Networks
- IEEE P802.1ad/D6.0 Draft Standard for Local and Metropolitan Area Networks—Virtual
- Bridged Local Area Networks — Amendment 4: Provider Bridges