

FTTx ONU Solution

C1004



Features

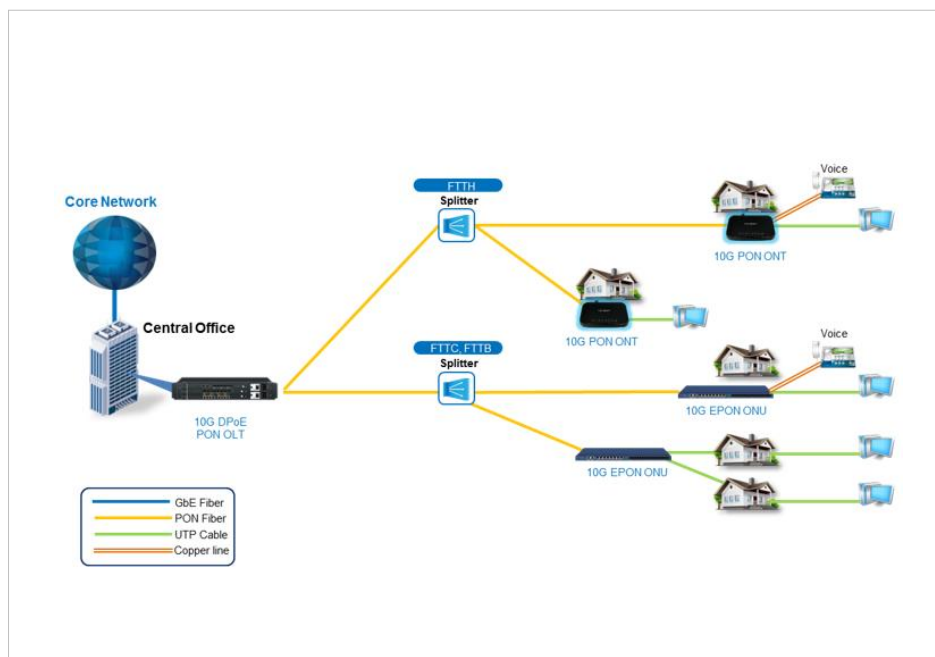
- Various speed combination supported
 - Diverse Down/Upstream speed sets for the uplink segment are available
 - : 10Gbps / 10Gbps
 - : 10Gbps / 1Gbps
 - Uplink segment means the portion between OLT and ONU.
- Compliant to cablelab's DPoE spec
 - Right for the MSOs who want to migrate to EPON technology
- Management via efficient OAM
 - DPoE 1.0 OAM
 - Authentication

System Overview

C1004 is a bridge type ONU which is compliant with IEEE802.3av. It has a 10G EPON uplink and 4 Gigabit Ethernet ports for service.

The 4 UTP ports can utilize non-sharing 1Gbps bandwidth respectively. C1004 is designed to be placed on either the wall or the desk near center home.

Deployment Diagram



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Specification

HW Specification

System Architecture & Console

- PON interface
 - 10/10, 10/1, 2/1(planned), 1/1(planned) Gbps
- User interface
 - Four 10/100/1000base-Tx
 - MDI/MDIX Auto-Negotiation

Physical Dimension

- 288.50 x 186.60 x 52.50 mm
- Desktop Type
- 700g

Environment Condition

Input power and frequency

- Input : 100 ~ 220VAC, 50~60Hz
- Output : 12VDC, 3A
(The input terminal that a power adaptor is connected to)

Power Consumption

- Max. 9.1 W

Operating Temperature

- 0 ~ 50°C

Storage Temperature

- -20°C ~ 60°C

Service and features

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

Layer 2

- IEEE802.1Q VLAN(Tagged, untagged by Port) for WAN Port
- Maximum 16 active VLAN
- VLAN ID range of 1~4094
- Support up to 512 MAC Address

Multicasting

- IGMP v1/v2/v3&MLDv1/v2
- IGMP snooping for IPTV service
- IGMP Immediate Leave on/off

QoS

- Rate limiting ($\pm 10\%$)
- QoS for both upstream and downstream
- Rate limiting

O&M

- System or module LED
- Local and remote Firmware Upgrade (The existing Image should be kept when upgrade fails).
- Device status and performance management

IPv6

- Support IPv6 Filtering

Link Measurement and diagnostic

- Support OAM Remote Loop back test.
- OLT detects EPON Signal Strength to check the status of ONU signal received/transmitted based on

Optical characteristics

- Transmission distance: 20Km
- Transmission quality: BER 10-10 or lower
- Transmission level : -1~4dBm

Dielectric resistance

- 100Mohm or higher (based on DC 500V)

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