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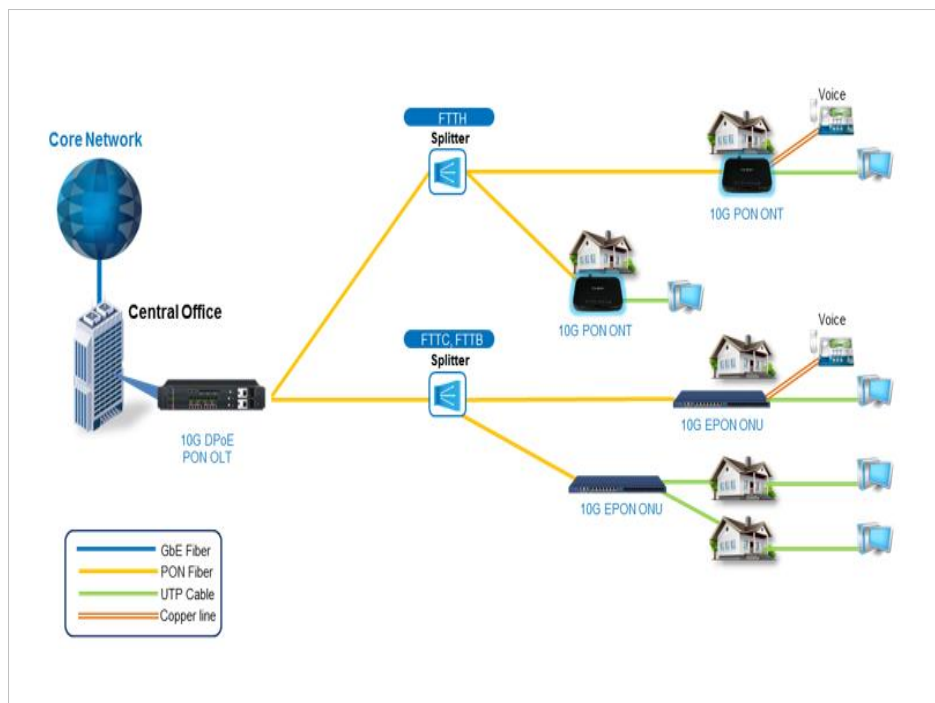
- Various speed combination supported
  - Diverse Downstream/Upstream speed sets for the uplink segment are available
    : 10Gbps / 10Gbps
    : 10Gbps / 1Gbps
  - Uplink segment means the portion between OLT and ONU
- Compliant to cablelab's DPoE spec
  - Right for the MSOs who want to migrate to EPON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

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FTTx ONU Solution

C1004P

System Overview

C1004P 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.

C1004P supports IEEE 802.3at and 802.3af Power over Ethernet capability as a Power Sourcing Equipment (PSE) so that handy installation on site can be achieved.

Deployment Diagram

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 (W.D.H)
- Desktop Type
- 800g

Environment Condition

Input power and frequency
- Input : 100 ~ 240VAC, 50 ~ 60Hz
- Output : 56VDC, 2.2A
  (The input terminal that a power adaptor is connected to)

Power Consumption
- ONT excluding PSE: Max 15W (with 4 plain GigE ports are connected)
- ONT including PSE: 90W (with 1 AT port and 3 AF ports are connected)

Operating Temperature
- 0 ~ 50℃

Storage Temperature
- -20℃ ~ 60℃

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
- Max. 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 (±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

PSE
- PSE operates in Auto mode
- IEEE 802.3at/af compliant
- MAX PoE power for attached devices is 84W

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)

LAN Surge Protection
- ITU-T K21 compliant (10/700usec, 25ohm)
- Line to Line : 1.5KV, Line to Ground : 6KV

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Seamless Network Solution

All IP Convergence

Perfective Technology

The best partner of the main Internet Service Providers in Korea

Best OAM (Operation, Administration, Maintenance) Support

Many Experience of System Deployment