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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
 - EPON OAM
 - Authentication
 - Charging
- Dualband wireless access in concurrent manner
- IEEE 802.11 ac as well as b/g/n
- : At 2.4 GHz: IEEE 802.11 b/g/n
- : At 5 GHz: IEEE 802.11 ac
- Local Configuration via web GUI
- For monitoring and settings

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FTTx ONU Solution

C1004W

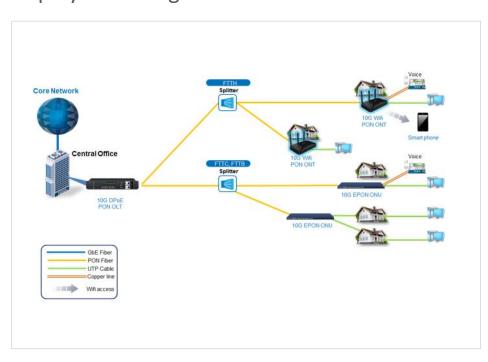


System Overview

C1004W is a single family unit type ONU which has a 10G EPON uplink and 4 Gigabit Ethernet ports for service as well as dual band WiFi interfaces. Each service port can support upto 1 Gbps bandwidth meanwhile WiFi interface supports IEEE 802.11 b/g/n/ac.

Besides, OAM functions like remote detection/configuration via ACS, web configuration and QoS control features are also obtainable for smoother operation and maintenance.

Deployment Diagram





Specification

HW Specification

System Architecture & Console

- · PON interface
 - 10/10, 10/1, 1/1 Gbps supported
- · User interface
 - Four 10/100/1000base-Tx, MDI/MDIX Auto-Negotiation
- Wi-Fi Interface
 - 802.11b/g/n/ac compliant

Physical Dimension

- 288.50(W) x 186.60 (D) x 150.00(H) (incl. antenna)
- Desktop Type
- 820g

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. 16.9 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
- Automatic Plug and Play function for WAN PON Port (Discovery and Authorization)

Layer 2

- IEEE802.1Q VLAN(Tagged, untagged by Port) for WAN Port
- · Maxumum 16 active VLAN
- VLAN ID range of 1~4094
- · Support up to 64 MAC Address

Layer 3

- DHCP Client/Server
- In NAT mode, IP will be assigned from the IP Pool of the device, and in Bridge mode, the IP will be assigned from the DHCP server in the network
- Support DNS/DNS Proxy

Multicasting

- IGMP v1/v2/v3
- IGMP proxy/snooping for IPTV service
- · IGMP Immediate Leave on/off
- 32 Multicast Group entry
- Multicast throughput 1Gbps

NAT/NAPT

- · Selectable between NAT mode and bridge mode
- Dynamic/static private IP in NAT mode
- · Port Forwarding and DMZ Host function
- Maximum 8K bi-directional concurrent sessions(full-wire-speed)

QoS

- Rate limiting (±10%)
- · QoS for both upstream and downstream
- Rate limiting

Security & Filtering

- · Broadcast storm control
- MAC filtering
- IP filtering

WiFi

- IEEE 802.11b/g/n/ac
- · Automatic Fallback
- Manual or automatic selectable channel
- Mixed use of 802.11b, 802.11g, 802.11n, 802.11ac
- Support 11n/11ac dual current mode
- Encryption (Keys such as Hex, ASCII, special character should be supported)
- 64/128bit Static WEP Key
- WPA/WPA2/WPA-PSK/ WPA2-PSK
- 4 or more Virtual AP (Multi SSID), and each SSID supports different encryption
- SSID should support alphabet, numeric, special character
- Hidden SSID
- Support WMM(Wireless LAN QoS function: IEEE 802.11e)
- IEEE 802.1x
- EAP MD5/EAP TTLS/PEAP
- RADIUS Client function
- Support TR-069
- WDS
- WMF
- Client isolation
- Support WPS with hardware PUSH button and 'configured' mode.

IPv6

- Support Dualstack
- Support DHCP Server and IPv6 addressing type: SLAAC (Stateless Address)
- Using DHCP Server and IPv6 addressing type: Stateful
- Support ICMPv6
- Support IPv6 Filtering



0&M

- · System or module LED.
- Memory structure that allows to save or modify Configuration File
- Memory should keep the contents of the memory even when power supply is stopped.
- Local and remote Firmware Upgrade (The existing Image should be kept when upgrade fails).
- Normal session for system management even when CPU overload
- Remote Management
- Remote access through Telnet(RFC 854, 855)
- CPE Management Server
- · Device Reset
- · Setting and changing Config
- Firmware download only through Web Server by TR069
- Time sync through NTP Server
- · Device status and performance management
- Support storage function and SAMBA by USB

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: 10Km or 20Km(Optional)
- Transmission quality: BER 10-10 or lower
- Transmission level : -1~4dBm

Dielectric resistance

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



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