# *GPON Solution >> >> ONT >> C624WFB*

**GPON ONT 4FE + 2FXS + Wi-Fi (n) + USB2.0 Host**

## Overview

C624WFB 고급 트리플 플레이 서비스 제공용으로 설계된 GPON ONT입니다. VoIP 및  UTP 선 또는 WiFi 인터페이스를 통해 고속 인터넷 접속 상단의 멀티 캐스트 비디오 응용 프로그램을 포함하여 QoS를 사용하도록 설정 기능을 지원합니다.

C624WFB ONT는 FTTH / FTTB 형태의 트리플 플레이 서비스 배포에 이상적입니다. 업계 표준 SIP 음성 신호는 신뢰할 수있는 음성 서비스를 제공합니다. 4개의 고속 이더넷 포트는 IP 비디오 및 데이터로의 전용 포트의 구성을 허용하여 다른 서비스로 구분 되게 합니다.

표준 OMCI 정의와 준수는 C624WFB 원격 사이트에서 관리하고 감독, 모니터링 및 유지 보수를 포함한 전체 범위 FCAPS 기능을 지원합니다.

## Features

- High level throughput
- MAC address learning per port: 64 per Ethernet port
- Affordable Voice quality: G.711A 20ms, PESQ average value > 3.9
- Available coding methods: G.711, G.729A, G.723.1, Delay (loopback delay)
- Input Power: 110-220VAC, 50/60Hz (Region dependent)
- Output Power: 12V DC, 1.5A (Switch)
- Dying Gasp: Supported
- Power Switch: Push button power on or off
- Reset Button: Reset to factory default
- WPS Button: enables Push button WPS function
- RF Switch Button: Push button WIFI on or off
- Operation Temperature of - 32℉ to 104℉ (0℃ to 40℃)
- Storage Temperature of - 4℉ to 149℉ (-20℃ to 70℃)
- Humidity of 5% ~ 95% non-condensing

## Specification

**Hardware**

| Key Components / Connectors / Performance | |
|---|---|
| Flash Memory | 16M Bytes (MAX support 256MB) |
| SDRAM for CPU | 64M Bytes (DDR2 ,MAX support 2Gbit) |
| Console | Internal console port (4 pin) |
| LAN | 4x 10/100Base-Tx MDI/MDIX RJ-45 port compliant with following standards:<br>1. IEEE 802.3/802.3u<br>2. Hardware based 10/100, full/half, flow control auto negotiation<br>3. Non-blocking wire speed reception and transmission<br>4. Full duplex IEEE 802.3x flow control and half duplex back-pressure flow control |

| | 5. Broadcast storm protection<br>6. Automatic address learning, address aging and address migration<br>7. Integrated address Look-Up Engine, 1 K absolute MAC addresses supported |
|---|---|
| WAN | 1x inner GPON port<br>Data Rate: Downstream: up to 2.5Gbps; Upstream: up to 1.25Gbps<br>Down wavelength: 1490 nm<br>Up wavelength: 1310 nm<br>Maximum transmission distance: 20 Km |

**Software**

| Feature Item | Feature | Detailed Description |
|---|---|---|
| GPON Compliance | ITU-T G.984.1, G.984.2, G.984.3, G.984.4 | |
| | Fully ITU-T G.984 compliant framing | |
| | Support 8 T-CONTS and 32 GEM Ports | |
| | Multiple T-CONTs per device Multiple GEM Ports per device | |
| | Flexible mapping between GEM Ports and T-CONT | |
| | Activation with automatic discovered SN | |
| | and password in conformance with | |
| | ITU-T G.988 | |
| | AES-128 Decryption with key generation and switching | |
| | FEC (Forward Error Correction) | |
| | DBA reporting in status indications in the PLOu, and by piggyback reports in the DBRu (mode 0) | |
| | 802.1p service mapping profile on U/S | |
| | Mapping of GEM Ports into a T-CONT with priority queues based scheduling | |
| | Support for Multicast GEM Port | |
| Network Protocol | 802.1q/1p VLAN over RFC2684 bridge encapsulation | |
| | PPPoE | Support AUTO, PAP, CHAP, MS-CHAP authentication. Auto or static IP address assignment. |
| | PPPoE passthrough | Supports concurrent PPPoE clients inside the modem and PPPoE clients on the LAN devices. |
| | PPPoE filtering of non-PPPoE packets between WAN and LAN | Support filtered non-PPPoE packets. |
| | Auto clean up of remote stalled PPP sessions at BRAS | |
| | Transparent bridging between all LAN and WAN interfaces | |
| | WAN to WAN blocking in bridge mode | |
| | Ethernet as WAN | |
| Networking | Full Cone NAT | |
| | DMZ Host | |
| ALGs | FTP | |
| | TFTP | |
| | RTSP | |

| | | |
|---|---|---|
| | Port Triggering | |
| | PPTP | |
| | IPSec and L2TP | |
| Firewall/Filtering | Stateful Inspection | |
| | Packet filtering | Packets can be blocked based on interface, mac address, IP address, protocol, and port number. |
| | LAN side firewall | By default, LAN side firewall is disabled |
| Parental Control | Time of day usage restriction | |
| | URL Filtering | Supports INCLUDE and EXCLUDE modes |
| QoS | IP/Bridge/802.1p | |
| | Rate Control on upstream traffic | |
| | Support SP, WRR | |
| Routing | RIP v1/v2 | Enable RIP over multiple WAN interfaces |
| | Policy Routing | Routes packets based on criteria other than destination IP address |
| IGMP | Proxy and snooping | |
| | IGMP v2 and v3 | |
| MLD | | |
| IPv6 | IPv6 Ready Logo Certified | |
| | IPv6 Firewall | |
| | IPv6 capable apps | telnetd, ftpd, sshd, httpd |
| USB | USB 2.0 "Host" Driver USB 2.0 | |
| | USB storage | |
| | Access to mounted USB disk via FTP | |
| DHCP Server | Support for multiple subnets | |
| | Static IP lease | |
| | DHCP relay | |
| DHCP client | | |
| LAN services | Second IP address on LAN interface | |
| DNS Proxy | Built in DNS server | |
| | Caching previous requests | |
| ACL | | |
| WebUI | Protection against Cross Site Request Forgery attack | |
| TR‐069 | Digest Authentication, SSL and Basic Authentication, SSL and Authentication Digest | |
| | Auto‐launch and exit‐on‐idle | |
| | TR‐098 | |
| | TR‐098 profile support | |
| | TR‐111 (part 1) | |
| | TR‐140 | |
| | TR‐104 | |
| TR‐064 | | |
| SNMP | v1/v2c agent | |
| | MIB‐II | |
| UPnP | Internet Gateway Device (IGDv1.0) Finite(24 hour) duration of virtual server entries created | |

| | using UPnP | |
|---|---|---|
| Security | Three level login(local admin, local user, remote support) | |
| | Service access based on incoming interface and/or source IP address | |
| | Automatic logout from CLI after inactivity | |
| Audit and Logging | Send log to remote syslog server | |
| Diagnostics | Interface Connectivity | Ethernet and USB. |
| | Internet Connectivity | ISP authentication, assigned IP address, default gateway/primary DNS server connectivity |
| Other Features | Dynamic DNS | |
| | sntp time synchronization | |
| | telnetD | |
| | Power Management | |
| WIFI Compliance | IEEE 802.11b/g/n | |
| | Support 2x2 antennas | |
| | Support 2-stream spatial multiplexing up to 270Mbps | (Can upgrade to 300Mbps) |
| | Support MCS 0-15 and MCS 32 modulation and coding rates channels | |
| | Support 20M and 40M | |
| | WEP encryption | Support 64, 128 Bit WEP encryption |
| | 802.1x | |
| | WPA/WPA2 | |
| | WPA-PSK/WPA2-PSK | |
| | Mac Filter base on each SSID | |
| | Multiple SSID | Up to 4 SSID Support SSID hidden |
| | Support SSID hidden | |
| | SSID User Isolation | |
| | WPS | WPS Push and WPS PIN method supported Housing WPS push button (optional) |
| | Enable or disable WIFI through GUI | |
| VoIP | SIP Protocol | Support SIP Protocol |
| | FXS | Support 2 FXS |
| | RTP ( RFC 1889)/ RTCP ( RFC 1890) | |
| | UDP ( RFC 768) | |
| | SDP ( RFC 2327) | |
| | Outbound Proxy | |
| | Multiple voice codec - G.711 (u/a-law), G.726, G.729 (A and B), G.723.1 etc | |
| | T.30 and T.38 Fax | |
| | DTMF In band & Out of bandTone Detection & generation (RFC2833) | |
| | Echo Cancellation, Silence suppression, VAD, CNG | |
| | Various CLASS services - Caller ID, Call Waiting, Call Forwarding, Call Transfer, etc. | |