

FTTH Solutions >> GPON Solution >> C624WGB

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



Overview

C624WGB is a GPON ONT designed for advanced triple-play service deployments. It supports QoS enabled features including VoIP and multicast video application on top of high speed internet access via either UTP line or WiFi interfaces.

C624WGB ONT is ideal for triple-play service deployments in FTTH/FTTB architecture. Industry standard SIP voice signaling provides reliable voice services. The four Giga-Ethernet ports can be separated into different services allowing the configuration of dedicated ports for IP video and data.

Compliant with standard OMCI definition, C624WGB is manageable from remote site and supports the full range FCAPS functions including supervision, monitoring and maintenance.

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°Fto 104°F (0°C to 40°C)
- Storage Temperature of 4°F to 149°F (-20°C to 70°C)
- 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 10/100/1000Base-TX MDI/MDIX RJ-45 port compliant with following standards: 1. IEEE 802.3/802.3u 2. Hardware based 10/100/1000, full/half, flow control auto negotiation 3. Non-blocking wire speed reception and transmission 4. Full duplex IEEE 802.3x flow control and half duplex back-pressure flow control 5. Broadcast storm protection 6. Automatic address learning, address aging and address migration 7. Integrated address Look-Up Engine, 1 K absolute MAC addresses supported	
WAN	1x inner GPON port Data Rate: Downstream: up to 2.4Gbps; Upstream: up to 1.2Gbps AN Down wavelength: 1490 nm Up wavelength: 1310 nm Maximum transmission distance: 20 Km	

Software

Feature Item	Feature	Detailed Description
	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	
GPON Compliance	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	
NELWOIK FIOLOCOI	encapsulation	
		Support AUTO, PAP, CHAP, MS-CHAP
	PPPoE	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	
	Full Cone NAT	
Networking	DMZ Host	
	FTP	
	TFTP	
	RTSP	
ALGs	Port Triggering	
	PPTP	
	IPSec and L2TP	
	Stateful Inspection	
	Staterul Hispection	Dadysta can be blocked based on interface
Firewall/Filtering	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	
Parental Control	URL Filtering	Supports INCLUDE and EXCLUDE modes
	IP/Bridge/802.1p	
QoS	Rate Control on upstream traffic	
	Support SP, WRR	
	RIP v1/v2	Enable RIP over multiple WAN interfaces
Routing	-	Routes packets based on criteria other than
	Policy Routing	destination IP address
ICMD	Proxy and snooping	
IGMP	IGMP v2 and v3	
MLD		
	IPv6 Ready Logo Certified	
IPv6	IPv6 Firewall	
	IPv6 capable apps	telnetd, ftpd, sshd, httpd
	USB 2.0 "Host" Driver USB 2.0	
USB	USB storage	
	Access to mounted USB disk via FTP	
	Support for multiple subnets	
DHCP Server	Static IP lease	
	DHCP relay	
DHCP client	·	
LAN services	Second IP address on LAN interface	
	Built in DNS server	
DNS Proxy	Caching previous requests	
ACL	31 4	
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	
TD 064	TR - 104	
TR - 064		
SNMP	v1/v2c agent	
	MIB - II	
	Internet Gateway Device (IGDv1.0) Finite(24	
UPnP	hour) duration of virtual server entries	
J	created using UPnP	
	Three level login(local admin, local user,	
	remote support)	
Security	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	
	Interface Connectivity	Ethernet and USB.
	,	ISP authentication, assigned IP address,
Diagnostics	Internet Connectivity	default gateway/primary DNS server
	,	connectivity
	Dynamic DNS	
0.1. 5 .	sntp time synchronization	
Other Features	telnetD	
	Power Management	
	IEEE 802.11b/g/n	
	Support 2x2 antennas	
	Support 2-stream spatial multiplexing up to	(0 1 20014)
	270Mbps	(Can upgrade to 300Mbps)
WIFI Compliance	Support MCS 0-15 and MCS 32 modulation	
	and coding rates channels	
	Support 20M and 40M	
	WEP encryption	Support 64, 128 Bit WEP encryption
Voip	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 Push and WPS PIN method supported
	WPS	Housing WPS push button (optional)
	Enable or disable WIFI through GUI	
	SIP/ MGCP/ H.248 Protocols	Support SIP or MGCP Protocols
	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 Cancelling, Silence suppression, VAD,	
CNG	
Various CLASS services - Caller ID, Call	
 Waiting, Call Forwarding, Call Transfer, etc.	