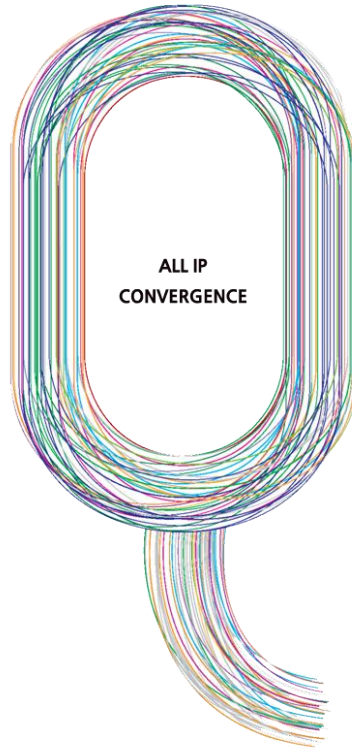


PON Product

■ Datasheet

C604GR



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Table of Contents

Table of Contents.....	III
GPON Solution >> ONT >> C604GR.....	1
Overview.....	1
Features.....	2
Specification.....	2

GPON Solution >> ONT >> C604GR

GPON ONT 4-Ports GE + RF Port

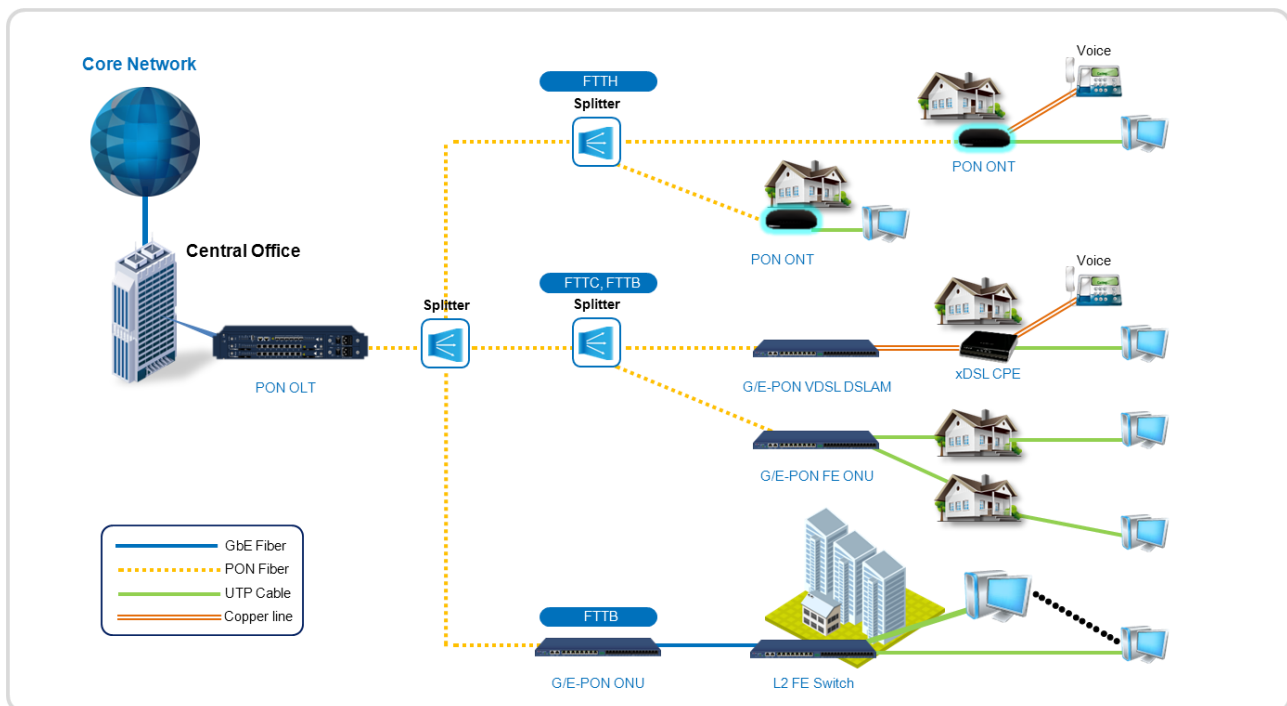


Overview

The C604GR is an RF featured GPON Optical Network Terminal which comprises of 1 RF video port and 4 Gigabit Ethernet (UTP, RJ45) ports as its service interfaces. It provides subscriber with high performance, individualized, and feature rich services including video (IPTV), voice, high speed internet and CATV analog video service. It is connected to GPON OLT and RN (Remote Node) via a fiber optic cable to provide TPS (Triple Play Service) and digitalized RF signal.

The C604GR basically operates VLAN translation, VLAN trunking and VLAN tagging/detagging per Ethernet port which will give network operator versatility to construct network per its own requirement. Besides, the OAM features based upon standard compliant OMCI facilitate more convenient and effective network operation.

Deployment



Features

- ITU-T G.984 GPON compliant
- 4 Ethernet LAN ports supported 10/100/1000Base-T ports
- RF video port(Coaxial F-Connector) for CATV
- OMCI
- QoS, CoS
- Dying Gasp support
- -10°C~60°C Operating Temperature
- 5% ~ 95% Humidity(Non-Condensing)

Specification

Item	Description
SYSTEM HW ARCHITECTURE	<ul style="list-style-type: none"> • 4 Port 10/100/1000 Base-T Ethernet data interfaces • Ethernet port auto negotiation or manual configuration • MDI/MDIX automatic sensing • One coaxial interface (54Mhz~1GHz Frequency Range) • AC Adapter input 100 ~ 240 volts, 50/60 Hz • Power Input 12V, 1.5A (feed via external AC/DC adapter) • 180mm(W) x 135mm(D) x 40mm(H) SFU-Type Dimension • -10°C~60°C (32°F~140 °F) Operating Temperature • Dying Gasp support
NETWORK FEATURES	<ul style="list-style-type: none"> • 256 MAC addresses and 16 VLAN groups • VLAN translation, VLAN trunking • Tagged / untagged VLAN per Ethernet port • IGMP v2/v3 snooping
PON FEATURES	<ul style="list-style-type: none"> • ITU-T G.984 GPON compliant (984.1/.2/.3/.4) • Single fiber, integrated triplexer transceiver • Compliant to FSAN G.984.2 specifications • Data/Video FTTx ONT/ONU applications • 1310nm Tx, 1490nm Rx, 1555nm video Rx • 1244Mbps Tx / 2488Mbps Rx asymmetric data rate • Received Optical Power Min: -28dBm ~ -8dBm • Burst mode upstream transmission • Extinction Ratio: Min 10dB • Average Optical Output Power: Min 0.5dBm ~ 5dBm • 870MHz video bandwidth • 20km reach • GR-468-CORE compliant SC/APC connector • Multiple T-CONTs, Multiple Port-IDs • NSR/SR DBA • Upstream and Downstream FEC • AES-128 decryption • 512 Port-Ids • 8 Transmission Container • Maximum 2.488 Gbps Downlink/1.244 Gbps Uplink
Video Overlay Specification	<ul style="list-style-type: none"> • Frequency Range: Min 54MHz – Max 870MHz • Receiver Wavelength: Min 1540nm – Max 1560nm • Received Average Optical Power: Min -8dBm – Max 2dBm • RF Output Level : Min 18dBmV/ch • RF Output Impedance : 75 Ohm
QoS / Security FEATURES	<ul style="list-style-type: none"> • IP ToS/DSCP to 802.1p mapping

	<ul style="list-style-type: none"> • CoS based on VLAN-ID, 802.1p bit, ToS/DSCP • Marking/remarking of 802.1p • QoS Support with 4-traffic classed based on arrival port, IEEE802.1p, Ipv4 TOS • Mac Address Limit for Mac Spoofing Attack • Static Mac Address
<p>OAM</p>	<ul style="list-style-type: none"> • Standards-compliant OMCI as defined in ITU-T G.984.4 and G.983.2 • Management Information Base (MIB) manipulation over OMCI by Create, Delete, Set, Get and Get Next commands • Provisioning for all services including Ethernet, IPTV, etc. • Alarming and AVC report, performance monitoring • Remote image download over OMCI, as well as activation and rebooting • Holds two F/W banks for image integrity and rollback