

# CT-4071

## GPON Residential Gateway



### Description

Comtrend's CT-4071 GPON (Gigabit-capable Passive Optical Network) Residential Gateway unlocks the door to the next generation of access networks. The CT-4071 provides a simple interface for customers to easily connect any media device, achieving a Triple-play platform at home.

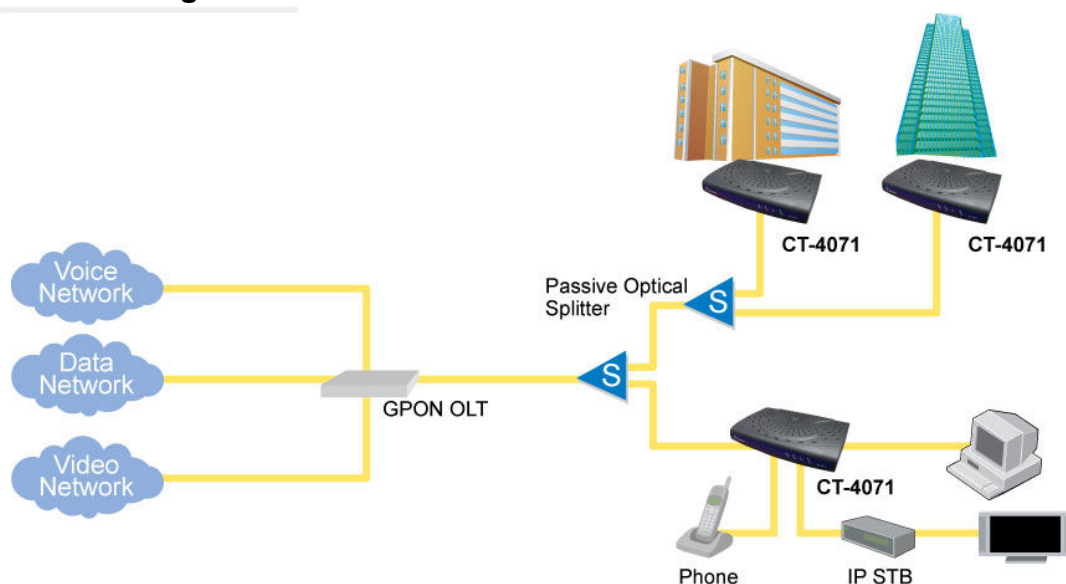
The CT-4071 not only conforms to the ITU-T G.984 standard, but also embeds one 10/100M Ethernet LAN port and one FXS port for VoIP application.

The CT-4071 is easily controlled by a remote system that is flexible enough to interoperate with the OLT units of different vendors. It also supports DBA (Dynamic Bandwidth Allocation) algorithm and QoS.

### Features

- ITU-T G.984 standard compliance
- 2.5Gbps downstram and 1.25Gbps upstream uplink interface
- Class B+ compliant APD receiver and DFB transmitter
- Traffic QoS support
- DBA reporting
- IGMP v1/v2/v3 snooping support for IPTV service
- Routing protocol support for Static route, RIP and RIPv2
- DHCP Server/Relay
- NAT/NAPT
- Firewall function support
- Integrated VoIP function support (G.711 and G.729)

### Applications Diagram



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### Specifications

#### GPON Interface

Standard	ITU-T G.984
Optical Line Rate	Downstream: 2.488Gbps / Upstream: 1.244Gbps
Connector	SC/PC
Optical Fiber	Single mode
Wavelength	1490 downstream & 1310nm upstream
Optical Budget	Class B+ (13 – 28 dB)
Transmission Distance	Min. 20 km within class B+
Splitting ratio	1 by 64 within class B+

#### LAN/WAN Interfaces

Standard	IEEE 802.3, IEEE 802.3u
10/100 BaseT	Auto-sense
MDI/MDX support	Yes
Connector	RJ-45 X1 for LAN

#### Voice Interface

Protocol	SIP
Codecs	G.711/G.729
Connector	RJ-11X1 for FXS

#### Management

Telnet, Web-based management, Configuration backup and restoration  
Software upgrade via HTTP, TFTP server, or FTP server

#### Bridge Functions

Transparent bridging and learning	IEEE 802.1d
Spanning Tree Algorithm	Yes
IGMP Proxy	Yes

#### Routing Functions

Static route, RIP, and RIPv2, NAT/PAT, DHCP Server/DHCP Relay, DNS Proxy, ARP

#### Power Supply

External power adapter	110 Vac or 220 Vac
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#### Certifications

FCC Part 15, CE

Note: Specifications are subject to change without notice.

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