

GB-4100

GPON SFU ONT with RF Overlay



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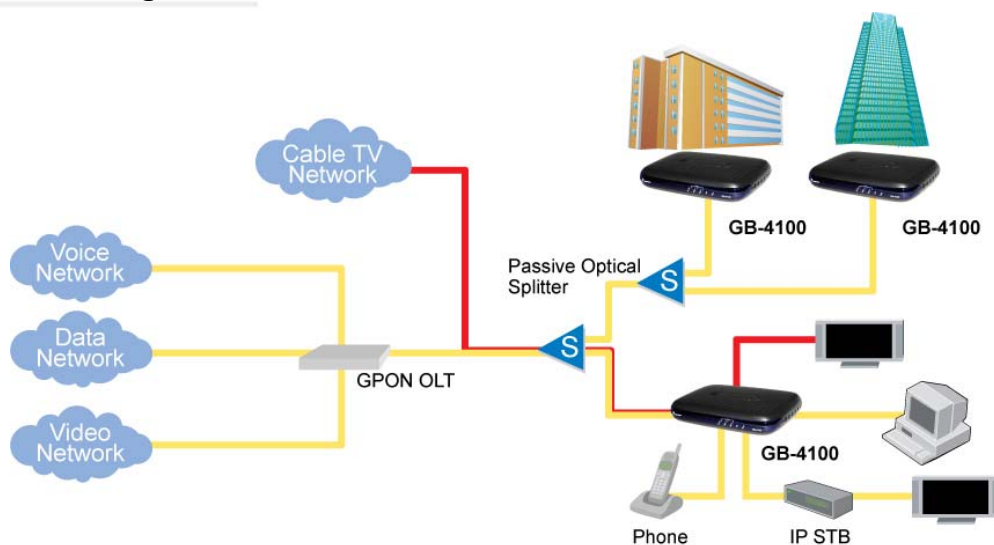
Description

Comtrend's GB-4100 GPON (Gigabit-capable Passive Optical Network) SFU ONT is a Triple-play platform that provides a high-speed data-access corridor for media devices according to the ITU-T G.984 standard. In addition to a three-wavelengths GPON optical module, the GB-4100 includes a cable TV interface and 10/100/1000M Ethernet LAN port. Easily controlled by a remote system that is flexible enough to interoperate with the OLT units of different vendors, the GB-4100 also supports DBA (Dynamic Bandwidth Allocation) algorithm and QoS.

Features

- ITU-T G.984 standard compliance
- 2.5Gbps downstream, 1.25Gbps upstream uplink interface
- Class B+ compliant APD receiver and DFB transmitter
- IGMP v1/v2/v3 snooping support for IPTV service
- Cable TV interface (coaxial F)
- Traffic QoS support
- DBA reporting

Applications Diagram



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Specifications

GPON Interface

Standard	ITU-T G.984
Optical Line Rate	Downstream: 2.488Gbps, & Coaxial Cable Signal / Upstream: 1.244Gbps
Connector	SC/A-PC
Optical Fiber	Single mode
Wavelength	1490 downstream, 1310nm upstream, & 1550nm Coaxial Cable Signal
Optical Budget	Class B+ (13 – 28 dB)
Transmission Distance	Min. 20 km within class B+
Splitting ratio	1 by 64 within class B+

LAN Interfaces

Standard	IEEE 802.3, IEEE 802.3u
10/100/1000 BaseT	Auto-sense
MDI/MDX support	Yes
Connector	RJ-45X1

Cable TV Interface

Bandwidth	40 – 870 MHz
Connector	F Connector

Management

Web-based management, Software upgrade via HTTP

Bridge Functions

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

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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DS_GB4100_R2.0_062009