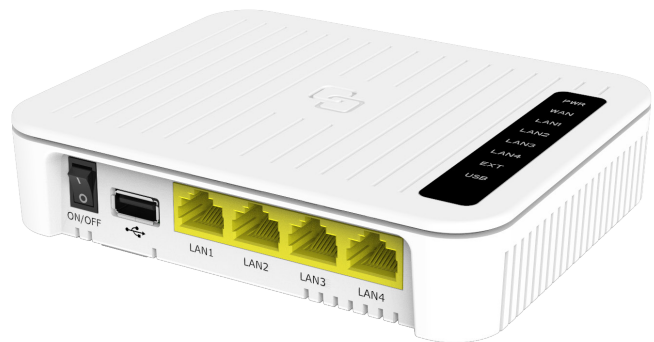# Genexis XG6846B

XG Series

The XG6846B is a high performance 1G capable Ethernet Layer2/Layer 3 device. It consists of one 1G Ethernet FTTH SFP WAN port, one 1G RJ45 based WAN and four 1G LAN ports.

The internal components is of the latest generation, supporting line rate performance up to layer 4 thanks to an advanced quad-core application and networks processor.

Key features

· 1x 1G SFP WAN port

· 1x 1G WAN/EXT port

· 4x 1G LAN ports

· 1x USB 2.0 (optional)

· Supports IGMP snooping

· Compatible with existing XG6846 Fiber Trays

· Cloudsight management and provisioning

· Software can be upgraded remotely

· Optional CATV module (remotely managed)

· Supports port-based or IEEE 802.1Q tagged VLAN to provide virtual channels to separate various types of service

· VLAN classification and retagging (VLAN mapping)

· Sophisticated packet classifying and priority queuing mechanisms ensure Quality of Service (QoS)

· Using GenXOS modular software to enable for 3rd party development.

· Line rate performance in L2/L3 mode for all packets sizes

Product features and specifications

Genexis XG6846B

Environment

Dimension (H x W x D): 28x110x140mm

Operating temperature	0 - 45 °C
Storage temperature	-20 - +85 °C
Operating humidity	5% ~ 95%

(non-condensing)

Storage humidity	5% ~ 95%

(non-condensing)

Power

Output	N/A
Input	12VDC

802.3az Energy Efficient Ethernet (EEE)

WAN interface

1x100M/1G RJ45 Ethernet WAN (if no SFP is used)

1x100M/1G FTTH SFP WAN (no coding)

LAN interface

4x 100M/1G Ethernet ports compliant with IEEE

1 x 100M/1G Ethernet ports (if SFP is active WAN)

802.3u/802.3x and support automatic MDI/MDIX and speed sensing

CATV option (in the Fibertray)

Wavelength	1550 nm

CATV-102

Frequency range	47MHz~870MHz

F-female connector for CATV RF output

AGC (automatic gain control)

Simplex SC / APC Connector

Video RF signal output with 75 Ohm impedance

Power ON / OFF control for GPIO.

Weak signal alarm function

LED indicators

Power (PWR) indicator

On (green) – Power is on

On (red) – Startup failure

Off – Power is off

Packet switching

Non-blocking switching performance with up to 8K MAC address automatic learning and aging 802.1Q VLAN support for 4096 VLAN Ids VLAN classification and retagging (VLAN mapping)

Port based VLANs are supported

Egress tagging / untagging selectable per port or by 802.1Q VLAN ID

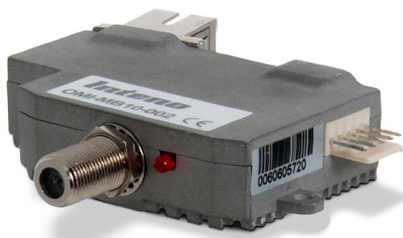Port Trunking and Monitoring / Mirroring

Quality of Service (QoS)

Four traffic classes to support QoS determined by port, 802.1p tagged frames, IPv4's Type of Service (ToS) & Differentiated Services (DS), IPv6's

Traffic Class, 802.1Q VID, Destination MAC Address or Source MAC Address

Strict, Weighted, or mixed mode QoS selectable per port

Configuration and network management

DHCP client with options for getting management IP Management and configuration via Web / HTTP

Software upgrade using HTTP, TR-069, TR-181

IUP (Inteno Universal Provisioning)

Note:

More features are available and not listed in this document.

CATV module

XG 6846B + FiberTray

Genexis XG6846B product models

Model	LAN		CATV
	Ports	Speed (Mbps)	Option in the Fibertray
XG6846B	4x	100M/1G	1550 nm
XG6846 FiberTray-V4	FiberTray and wall mount for XG6846/ XG6846B including cable kit		