



## Genexis XG6846C

### XG-Series



The XG6846C is a high performance 2.5G capable Ethernet Layer2/Layer 3 device. It consists of one 2.5G Ethernet FTTH SFP WAN port, one 2.5G RJ45 based WAN/EXT port, one 2.5G + three 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 network processor.

#### Key features

- 1x 1G/2.5G SFP WAN port
- 1x 2.5G WAN/EXT port
- 1x 2.5GE + 3x 1GE LAN ports
- 1x USB 2.0
- 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 IOWRT modular software to enable for 3rd party development.
- Line rate performance in L2/L3 mode for all packets sizes



# Product features and specifications

## Genesis XG6846C

### Environment

Dimension (H x W x D):	1.10x4.33x5.51 mm
Operating temperature	32 - 113 °F
Storage temperature	-4 - 185 °F
Operating humidity (non-condensing)	5% ~ 95%
Storage humidity (non-condensing)	5% ~ 95%

### Power

Input	12VDC / 1.5A
802.3az Energy Efficient Ethernet (EEE)	

### Power consumption (EU-CoC-BBE)\*

Idle mode	4.34 W (EEE enabled)
On mode	5.24 W (EEE enabled)

### WAN interface

- 1x 100M/1G/2.5G RJ45 Ethernet WAN/EXT (if no SFP is used)
- 1x 1G/2.5G FTTH SFP WAN (no coding)

### LAN interface

- 1x 100M/1G/2.5G (IEEE compliant Ethernet ports)
- 3x 100M/1G (IEEE compliant Ethernet ports)
- 1x 100M/1G/2.5G Ethernet / EXT port (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-103
- 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, TFTP, TR-069, TR181
- Genesis Cloudsight
- IUP (Inteno Universal Provisioning)

Note:

More features are available and not listed in this document.

\* CoC test result with 2.5G optical SFP without CATV



CATV-103 module



XG 6846C + FiberTray

## Genesis XG6846C product models

Model	LAN		CATV
	Ports	Speed (Mbps)	Option in the Fibertray
XG6846C	1x	100M/1G/2.5G	1550 nm
	3x	100M/1G	
XG6846-FIBERTRAY-V4	Fibertray and wall mount for XG6846/ XG6846B/ XG6846C including cable kit		

Note: Not every listed feature may be included in the shipping product. We reserve the right to make changes of technical specifications, housing or design without prior notice.