



## Genexis XG6846

### XG Series

#### Managed FTTH Switch



The XG6846 is a manageable Gigabit Ethernet layer 2 switch with four Gigabit Ethernet LAN ports. The XG6846 is equipped with both an electrical 10/100/1000 Base-T WAN/LAN Ethernet port as well as a 100/1000 Base-X SFP autosensing WAN port. The integrated Gigabit Ethernet switch provides

non-blocking throughput with VLAN support as well as advanced QoS mechanisms. XG6846 is optionally delivered with a fiber tray where a CATV module can be installed. By offering the flexibility and performance, this device brings maximum benefit to operators, service providers and network owners.

#### Key features

- All Ethernet interfaces support up to 1000 Mbps symmetric rates with automatic speed sensing and crossover correction. Port speed/ duplex configurable 10/100/1000 FD/HD
- Flexible choice of WAN port: either copper or fiber (SFP)
- Integrated four port Gigabit Ethernet switch
- Extra "hidden" ethernet port LAN or WAN
- Supports IGMP snooping

- 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)
- Features IP based automated provisioning, configuration and management as well as TR-069
- Software can be upgraded through TFTP, HTTP or TR-069 CLI
- Optional CATV module (remotely managed)



# Product features and specifications

## Genesis XG6846

### Environment

Dimension (H x W x D):	28x110x140mm
Operating temperature	0 - 45 °C
Storage temperature	-20 - +85 °C
Operating humidity (non-condensing)	5% ~ 95%
Storage humidity (non-condensing)	5% ~ 95%

### Power

Output	12 VDC, 1A
Input	100-240 VAC 50/60Hz
802.3az Energy Efficient Ethernet (EEE)	

### WAN interface

10/100/1000 Base-T Ethernet port in RJ-45 connector, comply with IEEE 802.3u & 802.3x or SFP 100/1000 Base-X auto sensing

### LAN interface

Four 10/100/1000 Base-T Ethernet ports each in RJ-45 connector, comply with IEEE 802.3u /802.3x and support automatic MDI/MDIX and speed sensing

EXT1 10/100/1000 Base-T port RJ-45 connector, comply with IEEE 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

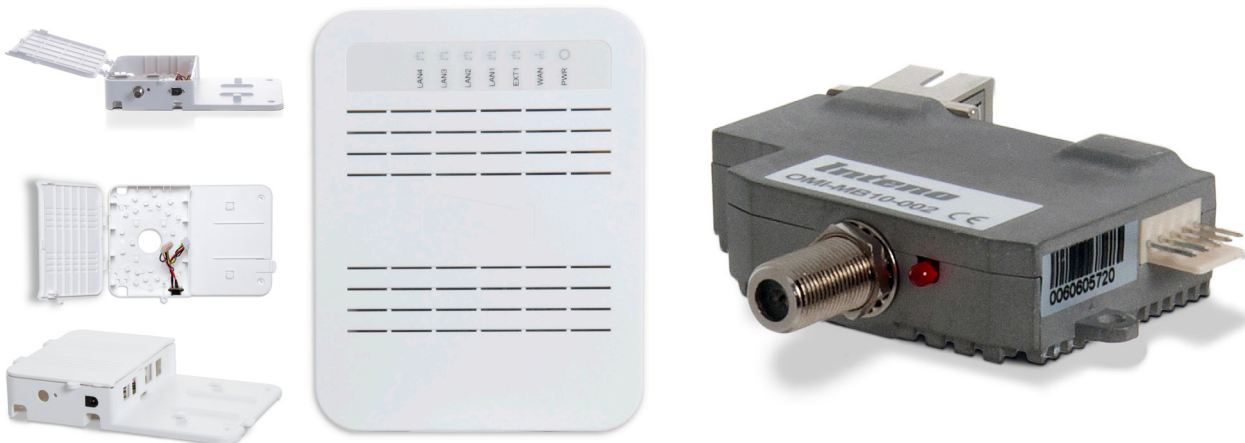
- Supports up to 10K bytes Jumbo frames
- Non-blocking switching performance with up to 8K MAC address automatic learning and aging 802.1Q VLAN support for 4096 VLAN Ids VLAN classification and retagging (VLAN mapping)
- Port based VLANs are supported
- Egress tagging / untagging selectable per port 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

- Per port, programmable MAC address limiting MAC SA based 802.1X authentication RMON counters available per port (SNMP) Integrated Advanced Virtual Cable Tester® (VCT™) cable diagnostic feature
- DHCP client with options for getting management IP Management and configuration via Web / HTTP
- Software upgrade using HTTP, TFTP or TR-069
- Supports TR-069 (with switch management supported by future software upgrade)
- SNMP
- CLI access via telnet/SSH
- HTTP web server access



## Genesis XG-Series product models

Model	LAN		CATV
	Ports	Speed (Mbps)	Option in the Fibertray
XG6846-W/O-USB	4x	1000/100/10	1550 nm
XG6846 FiberTray	FiberTray and wall mount for XG6846 including cable kit		
XG6846 TrayExtender	FiberTray extender for XG6846		

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.