

## **XG6846 Managed Ethernet Switch**

# *Next Generation Gigabit Ethernet Triple Play Switch with Remote Management*



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.

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



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## Specifications, hardware

### 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

### USB Interface

- One USB Host 2.0

### LED Indicators

- *Power (PWR) indicator*
  - On (green) – Power is on
  - On (red) – Startup failure (please contact your operator)
  - Off – Power is off

- *WAN indicator*
  - On (yellow) – Connected to a 100Mbps network
  - On (green) – Connected to a 1000Mbps network
  - Off – Not connected to the network
  - Blinking – Activity
- *EXT1 indicator*
  - On (yellow) – Connected to the 100Mbps network
  - On (green) – Connected to the 1000Mbps network
  - Off – LAN not connected
  - Blinking – Activity
- *LAN 1-4 indicators*
  - On (yellow) – Connected to the 100Mbps network
  - On (green) – Connected to the 1000Mbps network
  - Off – LAN not connected
  - Blinking – Activity

- *USB indicator*
- LED can be turned off in the configuration

### Environment

- Operation Temperature: 0°C ~ +45°C
- Operation Humidity: 5% ~ 95% (non-condensing)
- Storage Temperature: -20 ~ +85°C
- Storage Humidity: 5% ~ 95% (non-condensing)

### Power

- AC to DC adapter: input 100~240 VAC 50/60 Hz; output 12V DC 1A
- 802.3az Energy Efficient Ethernet (EEE)
- Power consumption: TBA

### Physical Dimensions

- (110 × 140 × 28) Main Body

### Certificates

- CE

## Specifications, functions

### 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
- 802.1w Rapid Spanning Tree
- Port states & BPDU handling for Spanning Tree
- Enhanced 802.1s per VLAN Spanning Tree supporting up to 64 instances

### Quality of Service

- 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)

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- SNMP
- CLI access via telnet/SSH
- HTTP web server access

**Note:** We reserve the right to make changes of technical specifications, housing or design without prior notice.



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*Visual Overview*

