XG6746 Managed Ethernet Switch

Gigabit Ethernet Triple Play Switch with Remote Management

The XG6746 is a manageable Gigabit Ethernet layer 2 switch with four Gigabit Ethernet LAN ports. The XG6746 is equipped with both an electrical 10/100/1000 Base-T Ethernet port as well as a 100/1000 Base-X SFP autosensing port.

The integrated Gigabit Ethernet switch provides non-blocking throughput with VLAN support as well as advanced QoS mechanisms. XG6746 is otionally 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.

- Flexible choice of WAN port: either copper or fiber (SFP)

- Integrated four port Gigabit Ethernet switch

- Supports IGMP snooping

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

- 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 or HTTP.

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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

LED Indicators
- *WAN indicator*
  On (yellow) – Connected to a 100Mbps network
  On (green) – Connected to a 1000Mbps network
  Off – Not connected to the network
  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

- *MANAGEMENT (MGM) indicator*
  On (green) – Connection to management server is ok
  Off – No connection to management server
  Blinking - Activity, update in process

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

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 12 VDC 1.5 Amp (TBD)

- Power consumption: Less than 18 watts (TBD)

Physical Dimensions
(200 × 140 × 25) Main Body

Certificates
- CE

Functionality

Packet Switching
- Supports up to 10K bytes Jumbo frames

- Non-blocking switching performance with up to 1K MAC address automatic learning and aging

- 802.1Q VLAN support for 64 VLAN Ids

- Port based VLANs are supported

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

- Port Trunking and Monitoring / Mirroring

- Port states & BPDU handling for Spanning Tree

- Enhanced 802.1s per VLAN Spanning Tree supporting up to 64 instances

Quality of Service
- 2 Ingress Rate Limiting buckets per port

- Non-rate Limited frames based on SA or DA

- 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

- Frame priority overrides based on SA, DA or VID

- Queue priority overrides based on SA, DA, VID, ARP or snoop

- 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

- 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 or TFTP

- Support TR-069 (with switch management supported by future software upgrade)

Note: Not every listed feature will be included in the shipping product.

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

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