

XG6746-R1 Managed Ethernet Switch

Gigabit Ethernet Triple Play Switch with Remote Management



The XG6746-R1 is a manageable Gigabit Ethernet layer 2 switch with four Gigabit Ethernet LAN ports. The XG6746-R1 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-R1 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
- 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, HTTP or TR-069
- CLI
- Optional CATV module (remote managed)



Inteno

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

- 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
- Power consumption: Less than 7 watt

Physical Dimensions

(200 × 140 × 25) Main Body

Certificates

- CE

Specifications, functions

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

- 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

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.



Inteno

Visual Overview



Inteno