

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)

Included



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

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
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

Software

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)
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.

Inteno

Sweden: Inteno Broadband Technology AB Stensättravägen 13, 127 39 Skärholmen, Stockholm | Phone: +46 8 579 190 00

Norway: Inteno Broadband Technology AS Solheimveien 36, 1473 Lørenskog | Phone: +47 67 91 19 30

Finland: Inteno Netmedia Oy Ab (Vaasa) Vaasanpuistikko 18, 65101 Vaasa **and (Helsinki)** Rälssintie 10, 00720 Helsinki | Phone: +358 6 3181 300

Denmark: Inteno Denmark A/S Højbyvej 19, 4320 Lejre | Phone: +45 4440 2500

Belgium: Inteno BVBA Heidestraat 257, 2070 Zwijndrecht | Phone: +32 499 56 55 48

info@intenogroup.com

www.intenogroup.com | www.iopsys.eu

Visual overview



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