

VT-G36CSEA

36-port 10G Uplink L3
Managed Ethernet Fiber Switch



Overview

The VT-G36CSEA is a 10G uplink L3 managed Ethernet fiber switch. It has 24*10/100/1000Base-T RJ45 ports and 8*10/100/1000Base-X SFP ports and 4*1/10G SFP+ fiber slot ports. Each port can support wire-speed forwarding. The VT-G36CSEA is has L3 full network management function, supports IPV4/IPV6 management, static route full line rate forwarding, complete security protection mechanism, complete ACL/QoS policy and rich VLAN functions, and is easy to manage and maintain. Supports multiple network redundancy protocols STP/RSTP/MSTP (<50ms) and (ITU-T G.8032) ERPS(<20ms) to improve link backup and network reliability.

Physical Port

- 24*10/100/1000Base-T RJ45 Ports (Data)
- 8*10/100/1000Base-X SFP Ports (Data)
- 4*10G SFP+ Fiber Slot Ports (Data)
- 1*Console RS232 Port (115200,N,8,1)

Feature

- L3 Network Management Function
- Full Gigabit access, 10G SFP+ fiber port uplink
- IPv6 features
- IP+MAC+port+VLAN quadruple flexible combination binding function.
- Strong business processing capability
- Stable and reliable
- Easy operation and maintenance management

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L3 Management

- Support STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)
- Web Management, CLI
- Support IGMP V1/V2/V3 Multicast protoco, QoS, VLAN
- SNMP (V1/V2/V3), Telnet, etc

Specifications

Model No.	VT-G36CSEA
Interface Characteristics	
Fixed Port	24*10/100/1000Base-T RJ45 ports (Data) 8*100/1000Base-X SFP ports (Data) 4*4*1/10G SFP+ fiber slot ports (Data) 1*Console RS232 port (115200,N,8,1)
Ethernet Port	Port 1-24 Support 10/100/1000Base-T(X) Auto-sensing, Full/ Half duplex MDI/ MDI-X self-adaption
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP (≤100 meters) 100BASE-TX: Cat5 or later UTP (≤100 meters) 1000BASE-T: Cat5e or later UTP (≤100 meters)
Optical Fiber Port	1/10G SFP+ optical fiber port, default no include optical module (optional single-mode / multi-mode, single fiber / dual fiber optical module. LC)
Optical Fiber Port Expansion	Turbo overclocking 2.5G optical module expansion and ring network
Optical Cable/ Distance	Multi-mode: 850nm/ 0-500m, 0-300m/ (10G), Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km
DistanceChip Parameter	
Network Management Type	L3
Network Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-X, IEEE 802.3ae 10GBase-LR/SR, IEEE 802.3x
Forwarding Mode	Store and Forward (Full Wire Speed)

Switching Capacity	598Gbps
Forwarding Rate@64byte	107.14Mpps
DRAM	2Gbit
FLASH	128Mbit
MAC	32K
Buffer Memory	32Mbit
CPU	500MHz
Jumbo Frame	9.6K
LED Indicator	Power: PWR (Yellow), System: SYS(Yellow), Network: Link/ Act (Yellow), Fiber port: L/A (Green)
Reset Switch	Yes, press and hold the switch for 10 seconds and release it to restore the factory settings
Power Supply	
Total PWR / Input Voltage	60W/(AC100-240V)
Power Consumption	Standby<20W, Full Load<45W
Power Supply	Built-in power supply, AC 100~240V 50-60Hz 1.0A
Physical Parameter	
Operation TEMP / Humidity	-20~+55°C,5%~90% RH Non condensing
Storage TEMP / Humidity	-40~+80°C,5%~95% RH Non condensing
Dimension (L*W*H)	440*290*44.5mm
Net /Gross Weight	<3.5kg / <4.3kg
Installation	Desktop, 19 inch 1U cabinet installation
Certification	
Lightning protection / protection level	Lightning protection: 4KV 8/20us; Protection level: IP30
Certification	CCC;CE mark, commercial; CE/LVD EN60950;FCC Part 15 Class B; RoHS

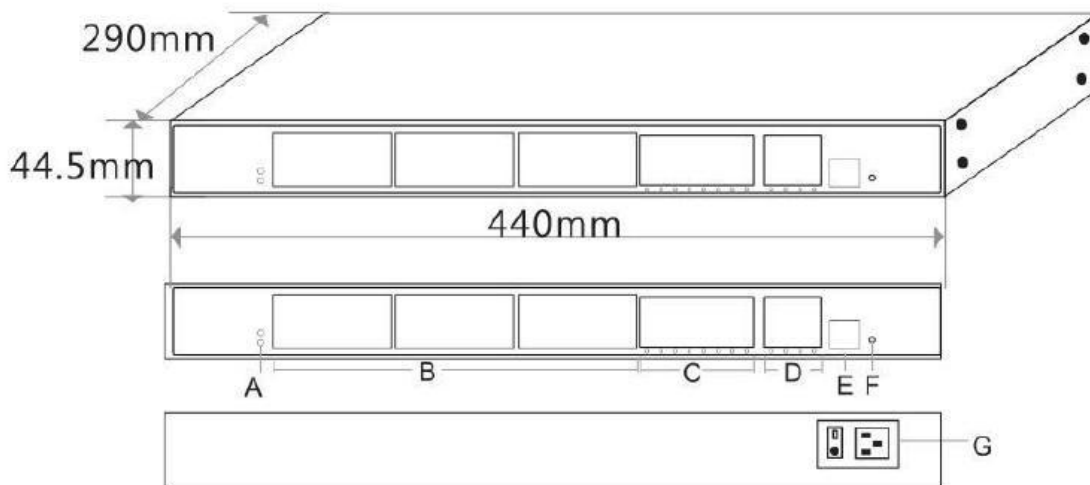
Network Management Feature	
Interface	<p>IEEE802.3X (Full-duplex)</p> <p>Port temperature protection setting</p> <p>Port green Ethernet Energy-saving setting</p> <p>Broadcast storm control based on port speed</p> <p>The speed limit of the message flow in the access port.</p> <p>The minimum particle size is 64Kbps.</p>
Layer 3 Features	<p>L3 network management</p> <p>IPV4/IPV6 management</p> <p>L3 routing full wire speed forwarding</p> <p>Static route, Default route @ 128 pcs, APR @ 1024 pcs</p>
VLAN	<p>VLAN based on MAC</p> <p>VLAN based on the protocol</p> <p>Voice VLAN, QinQ configuration</p> <p>4K VLAN based on port, IEEE802.1q</p> <p>Port configuration of Access, Trunk, Hybrid</p>
Port Aggregation	<p>LACP, Static aggregation</p> <p>Max 18 aggregation groups and 8 ports per group</p>
Spanning Tree	<p>STP (IEEE802.1d),RSTP (IEEE802.1w),MSTP (IEEE802.1s)</p>
Industrial Ring Network Protocol	<p>G.8032 (ERPS),Recovery time less than 20ms ,</p> <p>255 Ring at most, Max 250 devices per ring.</p>
Multicast	<p>MLD Snooping v1/v2,Multicast VLAN</p> <p>IGMP Snooping v1/v2, Max 1024 multicast groups, Fast log out</p>
Port Mirroring	<p>Bidirectional data mirroring based on port</p>
QoS	<p>Flow-based Rate Limiting</p> <p>Flow-based Packet Filtering</p> <p>8*Output queues of each port</p> <p>802.1p/DSCP priority mapping</p> <p>Diff-Serv QoS,Priority Mark/Remark</p> <p>Queue Scheduling Algorithm (SP, WRR, SP+WRR)</p>
ACL	<p>Port-based Issuing ACL,ACL based on port and VLAN</p> <p>L2 to L4 packet filtering, matching first 80 bytes message. Provide ACL based on MAC, Destination MAC address, IP Source, Destination IP, IP Protocol Type, TCP/UDP Port, TCP/UDP Port Range, and VLAN, etc.</p>
DHCP	<p>DHCP Client,DHCP Snooping,DHCP Server,DHCP Relay</p>

Security	<p>IP-MAC-VLAN-Port binding ARP inspection, Anti-DoS attack AAA & RADIUS, MAC learning limit Mac black holes, IP source protection IEEE802.1X & MAC address authentication Broadcast storm control, Backup for host datum SSH 2.0, SSL, Port isolation, ARP message speed limit User hierarchical management and password protection</p>
Management	<p>One-key recovery Cable Diagnose, LLDP Web Management (HTTPS) NTP, System work log, Ping Test CPU instant utilization status view Console/AUX Modem/Telnet/SSH2.0 CLI Download & Management on FTP, TFTP, Xmodem, SFTP, SNMP V1/V2C/V3 NMS - smart network management system platform(LLDP+SNMP)</p>
System	<p>Category 5 Ethernet network cable Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or higher, Microsoft Internet Explorer10 or later; TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed on each computer in a network</p>

OPTICAL MODULE

Model	Description
VT-GSFPM	SFP Optical Module, 1.25G Multi-Mode dual fiber 850nm, transmission distance: 550m, LC interface, supports DDM function and hot plugging.
VT-MSFPST	SFP Optical Module, 1.25G Single-Mode dual fiber 1310nm, transmission distance: 20km, LC interface, supports DDM function and hot plugging.
VT-10GGSFPM	SFP+ Optical Module, 10G Multi-Mode dual fiber 850nm, transmission distance: 300m, LC interface. support DDM function and hot plugging.
VT-10GMSFPST	SFP+ optical module, 10G Single-Mode dual fiber 1310nm, transmission distance: 20km, LC interface. support DDM function and hot plugging.

DIMENSION



- A. Work indicator
- B. 24*10/100/1000M Ports
- C. 8*1G Uplink SFP Fiber Ports
- D. 4*10G Uplink SFP Fiber Ports
- E. Console Port
- F. Power input port AC100-240V,50/60Hz

APPLICATION

