

VT-G24CSEA

28-Port 10G Uplink L3 Managed Ethernet Fiber Switch



Overview

The VT-G24CSEA is a 10G uplink L3 managed PoE fiber switch independently developed by VidoNet. It has 24*10/100/1000Base-T adaptive RJ45 ports and 4*1/10G uplink SFP+ fiber ports. Port 1-24 can support IEEE 802.3 af/at PoE standard and single-port PoE power reaches 30W. As a PoE power supply device, it can automatically detect and recognize the power-receiving equipment that meets the standard and supply power through the network cable.

Physical Port

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

Feature

- L3 Network Management Function,
- Gigabit access, Uplink 1/10G SFP+ Fiber Port
- IPv6 features
- IP+MAC+port+VLAN quadruple flexible combination binding function.
- Stable and reliable
- 400-watt PoE budget
- Easy-to-Use Management

The VT-G24CSEA has L3 network management function, supports IPV4/IPV6 management, dynamic routing, and 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 to improve link backup and network reliability.

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-G24CSEA
Interface Characteristics	
Fixed Port	24*10/100/1000Base-T PoE Ports (Data/Power) 4*1/10G Uplink SFP Fiber Ports (Data) 1*RS232 Console 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	176Gbps (non-blocking)
Forwarding Rate@64byte	95.23Mpps
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
PoE & Power Supply	
PoE Port	Port 1-24
PoE Management	PoE power supply total power limit configuration Power delay start, PoE work and time scheduling Port PoE working status display, Port PoE output priority configuration Port PoE output power distribution, PoE on/off, af/at power distribution
PoE Management	1/2(+) 3/6 (-)
Max Power Per Port	30W, IEEE 802.3 af/at
Total PWR / Input Voltage	400W/ (AC100-240V)
Power Consumption	Standby<25W, Full Load<400W
Power Supply	Built-in power supply, AC100~240V 50-60Hz, 5.0A
Physical Parameter	
Operation TEMP / Humidity	-20~+55°C, 5%~90% RH Non condensing
Storage TEMP / Humidity	-40~+80°C, 5%~95% RH Non condensing

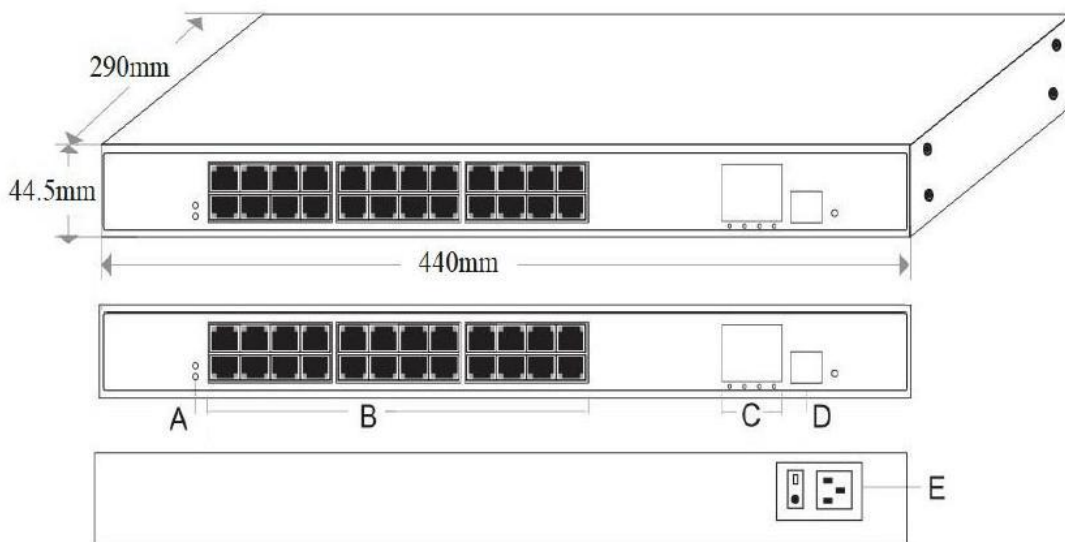
Dimension (L*W*H)	440*290*44.5mm
Net /Gross Weigh	4.0kg / 4.8kg
Installation	Desktop, 1U/19" cabinet
Certification	
Lightning Protection	Lightning protection: 4KV 8/20us, Protection level: IP30
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B, RoHS
Network Management Feature	
Interface	IEEE802.3x flow control (Full-duplex) Port temperature protection setting No connection port automatic sleep Port green Ethernet Energy-saving setting Broadcast storm control based on port speed SFP+ optical port DDMI real-time digital diagnosis The speed limit of the message flow in the access port, mini particle size is 64Kbps.
L3 Routing	IPV4 Equal Cost Routing NG protocol max 1000 entries ARP protocol max 1000 entries IPV4/IPV6 VRRP max group is 255 Pingv6, Telnetv6, TFTPv6, DNSv6, ICMPv6 IPV4/IPV6 VLANIF interface supports up to 128 IPV4/IPV6 static route/ default route supports up to 128 entries L3 network management function, IPV4/IPV6 dual-stack management IPV4 dynamic routing, RIPv1/v2, OSPFv2, BGP4+, 4000 routing entries IPV6 dynamic routing OSPFv3, BGP+, RIPng, IPV6 management, 1000 routing entries L3 routing and forwarding, support communication between different network segments and different VLAN
VLAN	Voice VLAN, QinQ configuration, IEEE802.1q VLAN based on MAC, VLAN based on the protocol 4K VLAN based on port, Port configuration of Access, Trunk, Hybrid
Port Aggregation	LACP dynamic aggregation, static aggregation Max 14 aggregation groups and 8 ports per group
Spanning Tree	STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)
Ring Network Protocol	250 Ring at most, Max 250 devices per ring. G.8032 (ERPS), Recovery time less than 20ms
Multicast	MLD Snooping, Multicast VLAN, Fast log out IGMP Snooping v1/v2, Max 1024 multicast groups

QoS	<p>Diff-Serv QoS, Priority Mark/Remark</p> <p>Queue Scheduling Algorithm (SP, WRR, SP+WRR)</p> <p>Flow-based Rate Limiting, Flow-based Packet Filtering</p> <p>8*Output queues of each port, 802.1p/ DSCP priority mapping</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>
Security	<p>ARP message rate limiting function</p> <p>Port broadcast message suppression</p> <p>SSL ensures data transmission security</p> <p>AAA& RADIUS& TACACS+ certification</p> <p>Limit the number of MAC addresses learned</p> <p>Port isolation, Host data backup mechanism</p> <p>Anti-DoS attack, ARP intrusion detection function</p> <p>Quadruple binding function of IP+MAC+VLAN+port</p> <p>IP source address protection, MAC address black hole</p> <p>User hierarchical management and password protection</p> <p>SSH 2.0 provides a secure encrypted channel for user login</p> <p>IEEE802.1X authentication/ centralized MAC address authentication</p>
DHCP	<p>DHCP Client, DHCP Snooping, DHCP Server, DHCP Relay</p>
Management	<p>System work log, Link Layer Discovery Protocol</p> <p>NTP clock, Cable length detection, SNMP V1/V2/V3</p> <p>Ping detection, Web network management (HTTPS)</p> <p>NMS platform cluster management (LLDP+SNMP)</p> <p>One click recovery, View CPU real-time utilization status</p> <p>FTP, TFTP, Xmodem, SFTP file upload and download management</p> <p>Console/ AUX Modem/ Telnet/ SSH2.0 CLI command line configuration</p>
System	<p>Web browser: Mozilla Firefox 2.5 or higher, Google Chrome V42 or higher, Cat5 and above Ethernet cable</p> <p>TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, Mac OS X) installed on each computer in the network Cat5 and above Ethernet cable</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 PoE Ports
- C. 4* 1/10G Uplink SFP Fiber Ports
- D. Console port
- E. Power input port AC100-240V,50/60Hz

APPLICATION

