

### VT-G24CSE

28-port 10G Uplink L2+  
Managed Ethernet Fiber Switch



#### Overview

The VidoNet VT-G24CSE is a 10G uplink L2+ managed Ethernet fiber switch independently developed by VidoNet. It has 24\*10/100/1000Base-T adaptive RJ45 ports and 4\*1/10G uplink SFP+ fiber ports. Each port can support wire-speed forwarding. It built-in 60W power supply and 1U/19" cabinet installation

#### Physical Port

- 24\*10/100/1000BASE-TX Fast Ethernet RJ45 Ports
- 4\*10G Uplink SFP fiber ports
- 1\*RS232 console port (115200,N,8,1)

#### Feature

- Gigabit access, uplink 1/10G SFP+ fiber port
- IPv6 features
- IP+MAC+port+VLAN quadruple flexible combination binding function.
- Stable and reliable
- Easy-to-Use Management
- L3 features supported: Static routing, RIPv1/v2, RIPvng

The VidoNet VT-24CSE has L2+ network management functions, supports IPV4/ IPV6 management, static routing forwarding, complete security protection mechanism, perfect ACL/QoS strategy, and rich VLAN functions, which are easy to manage and maintain. It supports multiple network redundancy protocols STP/RSTP/MSTP (<50ms) and (ITU-TG.8032) ERPS (<20ms) to improve link backup and network reliability.

#### L2+ Management

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

## Specifications

Model No.	VT-G24CSE
<b>Interface Characteristics</b>	
Fixed Port	24*10/100/1000Base-T 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-TW Cat3,4,5 UTP (≤100 meters) 100BASE-TXW Cat5 or later UTP (≤100 meters) 1000BASE-TW 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
<b>DistanceChip Parameter</b>	
Network Management Type	L2+
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	128Gbps (non-blocking)
Forwarding Rate@64byte	95.23Mpps
DRAM	1Gbit
FLASH	128Mbit
MAC	16K
Buffer Memory	12Mbit
Jumbo Frame	12000byte
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
<b>Power Supply</b>	
Total PWR / Input Voltage	60W/ (AC100-240V)
Power Consumption	Standby<20W, Full Load<45W
Power Supply	Built-in power supply, AC100~240V 50-60Hz, 1.0A
<b>Physical Parameter</b>	
Operation TEMP/Humidity	-20~+55°C, 5%~90% RH Non condensing
Storage TEMP/ Humidity	-40~+75°C, 5%~95% RH Non condensing
Dimension (L*W*H)	440*290*44.5mm
Net /Gross Weight	3.4kg / 4.2kg
Installation	Desktop, 1U/19" cabinet
<b>Certification</b>	
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

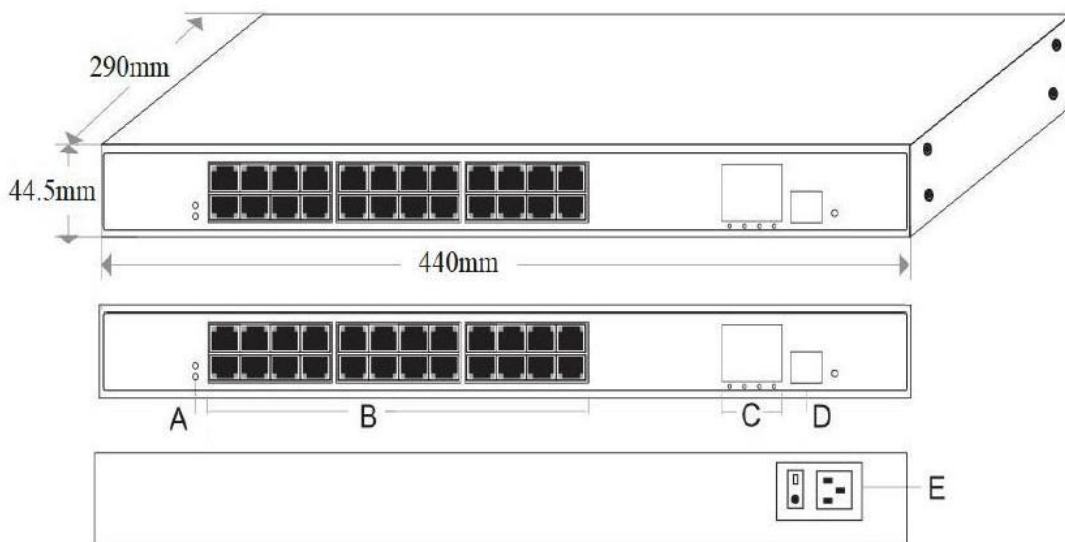
Network Management Feature	
Interface	<p>IEEE 802.3x flow control (Full duplex)</p> <p>Port exception protection mechanism</p> <p>Port real-time flow management (Flow Interval)</p> <p>Broadcast storm suppression based on port rate</p> <p>Optical port SFP module DDMI real-time digital diagnosis</p> <p>Port EEE Green Ethernet Energy-Saving configuration and status view</p> <p>Limit the speed of the message flow of the inbound and outbound ports, mini granularity is 16Kbps and max 1Gbps</p>
L3 Feature	<p>ARP protocol, max 1024 entries</p> <p>OSPFv1/v2, OSPFv3, RIPv1/v2, RIPv6</p> <p>Static route /default route max 128 entries</p> <p>L2+ network management function, IPV4/IPV6 dual-stack management</p>
VLAN	<p>VLAN based on MAC, VLAN based on the protocol</p> <p>Port configuration of Access, Trunk, Hybrid, GVRP VLAN protocol</p> <p>(4K) VLAN based on port, IEEE802.1q, Voice VLAN, QinQ configuration</p>
Port Aggregation	<p>LACP dynamic aggregation, Static aggregation</p> <p>Max 14 aggregation groups and 8 ports per group</p>
Spanning Tree	<p>STP BPDU Guard, BPDU filtering and BPDU forwarding</p> <p>STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)</p>
ERPS Ring Network	<p>Support ERPS, recovery time less than 20ms, ITU-T G.8032</p>
Multicast	<p>MLD Snooping, Multicast VLAN</p> <p>User quick log out, MVR (Multicast VLAN Registration)</p> <p>IGMP Snooping v1/v2/v3 and 1024 multicast groups at most</p>
Mirroring	<p>Bidirectional traffic mirroring for basic ports</p> <p>Supports 1-to-multiple mirroring, supports up to 4 port sessions</p>
QoS	<p>Flow-based redirection, Flow-based rate limiting</p> <p>Queue Scheduling Algorithm (SP, WRR, SP+WRR)</p> <p>8*Output queues of each port, 802.1p/DSCP priority mapping</p> <p>Flow-based packet filtering, Priority Mark/ Remark, Diff-Serv QoS</p>
ACL	<p>ACL issued based on port and VLAN</p> <p>L2-L4 packet filtering function can match the first 80 bytes of the message and provide ACL definition based on source MAC address, destination MAC address, source IP address, destination IP address, IP protocol type, TCP/UDP port, TCP/UDP port range, VLAN, etc.</p>

Security	<p>Port based IEEE802.1X authentication</p> <p>SSL guarantees data transmission security</p> <p>Quad binding function of IP+MAC+VLAN+ports</p> <p>MAC address learning limit, MAC address black hole</p> <p>Anti DoS attack, Port broadcast message suppression</p> <p>IP Source Guard function, AAA&amp;RADIUS certification</p> <p>Hierarchical user management and password protection</p> <p>SSH 2.0 provides a secure encrypted channel for user login</p> <p>Host data backup mechanism, ARP intrusion detection function</p> <p>Port isolation, IP Source Guard, ARP message speed limit function</p>
DHCP	DHCP Client, DHCP Snooping, DHCP Server
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,</p> <p>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

