

VT-G48CSE

Gigabit 52-Port L2+ Managed Ethernet Switch



Overview

The VT-G48CSE is a gigabit managed Ethernet fiber switch independently developed by VidoNet. It has 4*100/1000 Base-X SFP fiber ports and 48*10/100/1000Base-T adaptive RJ45 ports. Each port can support wire-speed forwarding. The VT-G48CSE has L2+ network management functions. It can support IPV4 management and static routing forwarding, complete security protection mechanisms, complete ACL/ QoS policies, and rich VLAN functions, making it easy to manage and maintain. Supports multiple network redundancy protocols RSTP (<50ms) to improve link backup and network reliability.

Physical Port

- 48*10/100/1000BASE-TX Fast Ethernet RJ45 Ports
- 4*100/1000Base-X uplink SFP fiber ports (Data)
- 1*RS232 console port (115200,N,8,1)

Feature

- Gigabit access, uplink SFP fiber port
- Strong business processing capability
- IP+MAC+port+VLAN quadruple flexible combination binding function.
- Stable and reliable
- Easy-to-Use Management
- L3 features supported: Static routing, RIPv1/v2, RIPng

When a one-way network fails, communication can be quickly restored to ensure uninterrupted communication of important transmissions. According to application needs, port flow control, VLAN division, QoS, and other application service configurations can be performed through network management methods such as Web, CLI, SNMP, and Telnet.

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-G48CSE
Interface Characteristics	
Fixed Port	48*10/100/1000Base-T Ports (Data/Power) 4*100/1000Base-X uplink SFP fiber ports (Data) 1*RS232 Console Port (115200,N,8,1)
Ethernet Port	Port 1-48 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	Gigabit optical fiber port, default no include optical module (optional single-mode/ multi-mode, single fiber/ dual fiber optical module. LC)
Optical Cable/ Distance	Multi-mode: 850nm/ 0-550m, Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km
DistanceChip Parameter	
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 802.3x
Forwarding Mode	Store and Forward (Full Wire Speed)

Switching Capacity	104Gbps (non-blocking)
Forwarding Rate@64byte	77.38Mpps
DRAM	1G
FLASH	256Mbit
MAC	16K
Buffer Memory	12Mbit
CPU	750MHz
LED Indicator	Power: PWR (Yellow), System: SYS (Yellow), Network: Link/Act (Yellow), Fiber port: L/A(Green)
Reset Switch	Yes, One-button factory reset
Power Supply	
Total PWR / Input Voltage	60W/ (AC100-240V)
Power Consumption	Standby<25W, Full Load<55W
Power Supply	Built-in power supply, AC100~240V 50-60Hz, 1.0A
Physical Parameter	
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	3.6kg/ 4.5kg
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

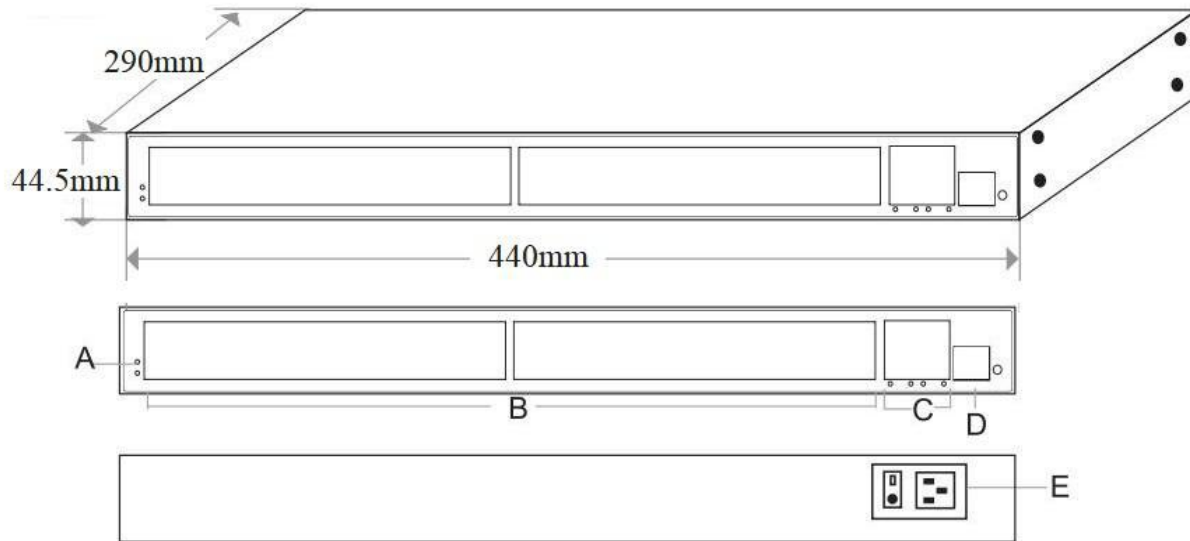
Network Management Feature	
Interface	<p>IEEE802.3x flow control (Full duplex)</p> <p>Broadcast storm suppression based on port rate</p> <p>Port real-time traffic management (Flow Interval)</p> <p>Limit the rate of packet traffic on incoming and outgoing ports, mini granularity is 16Kbps and max is 1Gbps</p>
L3 Feature	<p>IPV4 static route/ default route</p>
VLAN	<p>Port-based VLAN (4K), VLAN based on the protocol</p> <p>IEEE802.1q, Port configuration of Access, Trunk, Hybrid</p>
Port Aggregation	<p>LACP dynamic aggregation, Static aggregation</p> <p>Max 26 aggregation groups and 8 ports per group</p>
Spanning Tree	<p>RSTP (IEEE 802.1w)</p>
ERPS	<p>ERPSv2</p>
Multicast	<p>Multicast VLAN, User quick exit mechanism, IGMP Snooping v1/v2</p>
Port Mirroring	<p>Bidirectional data mirroring based on port</p>
QoS	<p>802.1p/ DSCP priority mapping, Diff-Serv QoS</p> <p>Queue scheduling algorithm (SP, WRR, WFQ)</p> <p>Flow-based rate limiting, Flow-based packet filtering</p> <p>Flow-based based redirection, 8*Output queues of each port</p>
ACL	<p>Port-based and VLAN-delivered ACL</p> <p>The L2-L4 packet filtering function can match the first 80 bytes of the packet and provide information based on source MAC address, destination MAC address, source IP address, destination IP address, IP protocol type, TCP/UDP port, TCP/UDP port range to define the ACL.</p>

Security	Port isolation, Port broadcast message suppression Port-based and Mac-based IEEE802.1X certification User hierarchical management and password protection AAA&RADIUS certification, IP source address protection
DHCP	DHCP Client, DHCP Snooping
Management	Web network management (https), Ping detection ONV-NMS platform cluster management (LLDP+SNMP) One click recovery, View CPU real-time utilization status Link Layer Discovery Protocol (LLDP), System work log Console/ Telnnet and CLI configuration, SNMP V1/V2/V3 NTP clock, HTTP file upload and download management
System	Web browser: Mozilla Firefox 2.5 or higher, Google Chrome V42 or higher, Cat5 and above Ethernet cable 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

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.

DIMENSION



- A. Working indicator
- B. 48*10/100/1000M RJ45 ports
- C. 4*100/1000M uplink SFP fiber ports
- D. Console port
- E. Power input port AC100-240V, 50/60Hz

APPLICATION

