

28-port 10G Uplink L2+ Managed Ethernet Fiber Switch VT-G24CSE

Overview

The VT-24CSE is a 10G uplink L2+ managed Ethernet fiber switch independently developed by ONV. It has 24*10/100/1000Base-T RJ45 ports and 4*1/10G SFP+ fiber slot ports. Each port can support wire-speed forwarding. The VT-24CSE has L2+ 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. When one-way network fails, communication can be quickly restored to ensure important Uninterrupted communication for applications. According to the actual application requirements, you can configure multiple application services such as port traffic control, VLAN division, and SNMP through the Web network management mode. It satisfies high-density network application environment and is suitable for medium, large-scale scenes such as hotel, campus, park, shopping mall, scenic spot, hospital, bank to form an economical, efficient and reliable communication network.

High Performance

- L2+ Managed Switch
- Gigabit access, 10G SFP
- Intelligent PoE power supply
- IEEE802.1Q VLAN
- IGMP Snooping
- VLAN isolation function

Security

- 802.1X authentication
- Port isolation, Storm control
- IP-MAC-VLAN-Port binding

Certification

- Lightning protection: 4KV 8/20us
- Protection level: IP30
- CCC ; CE mark
- CE/LVD EN60950
- FCC Part 15 Class B
- RoHS



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

VT-G24CSE

Full Gigabit access, 10G SFP+ fiber port uplink

- All series supports “Gigabit Ethernet port and 10G SFP+ fiber slot port “combination, which enables users to flexibly build networking to meet the needs of various scenarios.
- Support non-blocking wire-speed forwarding.
- Support full-duplex based on IEEE802.3x and half-duplex based on backpressure.

Strong business processing capability

- IEEE802.1Q VLAN, flexible VLAN division, Voice VLAN and QinQ configuration.
- QoS, Priority mode based on 802.1P, Port & DSCP, queue scheduling algorithm including Equ, SP, WRR & SP+WRR.
- ALC, filter data packet through configuring matching rules, processing operation & time permission, and provide flexible and safe access control.
- IGMP V1/V2 and IGMP Snooping.
- ERPS/STP/RSTP/MSTP.
- Static and dynamic aggregation.

Security

- 802.1X authentication
- Port isolation, Storm control
- IP-MAC-VLAN-Port binding

Stable and reliable

- Low power consumption, galvanized steel casing, The fan active cooling.
- Self-developed power supply, high redundancy design, providing a long term and stable power output.
- CCC, CE, FCC, RoHS.
- The user-friendly panel, it can show the device status through the LED indicator of PWR, SYS, Link, L/A.

Easy operation and maintenance management

- Web management, CLI command line (Console, Telnet), SNMP (V1/V2/V3).
- HTTPS, SSLV3, and SSHV1/V2.
- RMON, system log, LLDP, and port traffic statistics.
- CPU monitoring, memory monitoring, Ping test, and cable diagnose.

Specifications

Model	VT-G24CSE
Fixed Port	24*10/100/1000Base-T RJ45 ports (Data) 4*1/10G RJ45 ports (Data) 1*Console RS232 port (115200,N,8,1)
Ethernet Port	Port 1-24 can support 10/100/1000BaseT auto-sensing,Full/ half duplex MDI/MDI-X self-adaption
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meter) 100BASE-TX: Cat5 or later UTP(≤100 meter) 1000BASE-T: Cat5e or later UTP(≤100 meter)
SFP Slot Port	10G SFP+ optical fiber interface, default not matching optical modules (optional order single-mode / multi-mode, single fiber / dual fiber optical module. LC)
SFP Port Expansion	Turbo overclocking 2.5G optical module and ring
Optical Cable/Distance	Multi mode: 850nm / 0 ~ 500M(1.25G), 0-300M(10G), single mode: 1310nm / 0 ~ 40KM, 1550nm 0 ~ 120KM.
Chip Parameter	
Network Management Type	L2+
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T IEEE802.3u 100Base- TX, IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-X, IEEE802.3ae 10GBase-SR/LR IEEE802.3x
Forwarding Mode	Store and Forward(Full Wire Speed)
Switching Capacity	598Gbps (non-blocking)
Forwarding Rate@64byte	95.23Mpps

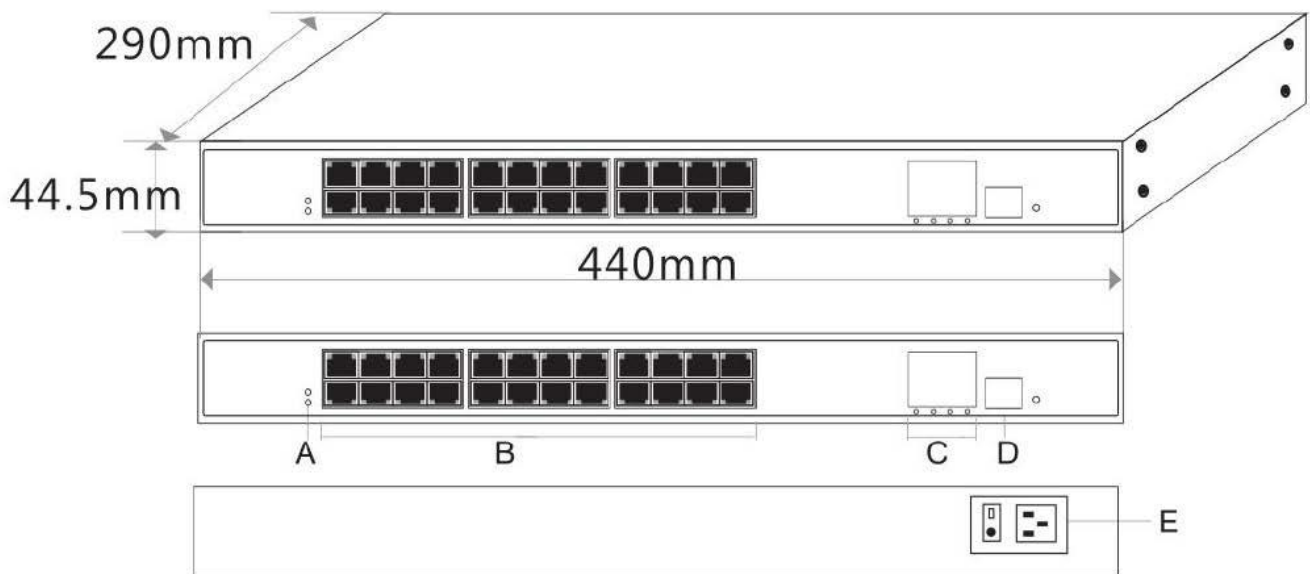
MAC	32K
Buffer Memory	32M
Jumbo Frame	9.6K
Reset Switch	Yes, support one key to restore factory settings
LED Indicator	Power: PWR (yellow), system:SYS (yellow); network:Link (yellow); PoE: PoE (green); Fiber port : L/A (green)
Power Supply	
Total PWR / Input Voltage	60W/AC100-240V)
Power Consumption	Standby<25W, Full Load<35W
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	<4.4kg / <5.0kg
Installation	Desktop type ,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 Features	
Interface	IEEE802.3X (Full-duplex) Port temperature protection setting Port green Ethernet Energy-saving setting Broadcast storm control based on port speed The speed limit of the message flow in the access port The minimum particle size is 64Kbps.
Layer 3 Features	L2+ network management , IPV4/IPV6 management L3 routing forwarding, Static route, Default route @ 128 pcs, APR @ 1024 pcs
VLAN	VLAN based on MAC VLAN based on the protocol Voice VLAN, QinQ configuration 4K VLAN based on port, IEEE802.1q Port configuration of Access, Trunk, Hybrid
Port Aggregation	LACP, Static aggregation Max 14 aggregation groups and 8 ports per group.
Industrial Ring Network Protocol	G.8032 (ERPS),Recovery time less than 20ms 255 Ring at most, Max 1024 devices per ring.
Spanning Tree	STP (IEEE802.1d),RSTP (IEEE802.1w),MSTP (IEEE802.1s)
Multicast	MLD Snooping v1/v2,Multicast VLAN IGMP Snooping v1/v2, Max 1024 multicast groups, Fast log out

Port Mirroring	Bidirectional data mirroring based on port
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>
Security	<p>IP-MAC-VLAN-Port binding</p> <p>ARP inspection,Anti-DoS attack</p> <p>AAA & RADIUS,MAC learning limit</p> <p>Mac black holes,IP source protection</p> <p>IEEE802.1X & MAC address authentication</p> <p>Broadcast storm control,Backup for host datum</p> <p>SSH 2.0,SSL,Port isolation,ARP message speed limit User</p> <p>hierarchical management and password protection</p>
DHCP	DHCP Client,DHCP Snooping, DHCP Server,DHCP Relay
Management	<p>One-key recovery</p> <p>Cable Diagnose,LLDP</p> <p>Web Management (HTTPS)</p> <p>NTP,System work log,Ping Test</p> <p>CPU instant utilization status view</p> <p>Console/AUX Modem/Telnet/SSH2.0 CLI</p> <p>Download & Management on FTP, TFTP, Xmodem, SFTP,SNMP V1/V2C/V3</p> <p>NMS - smart network management system platform(LLDP+SNMP)</p>

System	<p>Category 5 Ethernet network cable</p> <p>Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or higher, Microsoft Internet Explorer10 or later;</p> <p>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>
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Dimension



- A- Working Indicator
- B- 24*10/100/1000M Ports
- C- 4*10G SFP + Ports
- D- Console Port
- E- Power Input Port AC100-240V,50/60Hz

OPTICAL MODULE INFORMATION

1.25G Optical Module	
2630	SFP optical module, 1.25G, multi mode dual fiber 850nm Transmission distance: 550m, LC interface, support DDM function Support hot plug and pull
2632	SFP optical module, 1.25G, single-mode dual fiber 1310nm, transmission distance: 20km, LC interface Support DDM function, support hot plug and pull
2612-T	SFP optical module, 1.25G, single-mode single fiber TX1310nm/RX1550nm, transmission distance: 20km LC interface, support DDM function, support hot plug and pull
2613-R	SFP optical module, 1.25G, single-mode single fiber ,TX1550nm/RX1310nm, transmission distance: 20km LC interface, support DDM function, support hot plug and pull.
2612-T-SC	SFP optical module, 1.25G, single-mode single fiber TX1310nm/RX1550nm, transmission distance: 20km, SC interface, support DDM function, support hot plug and pull.
2613-R-SC	SFP optical module, 1.25G, single-mode single fiber TX1550nm/RX1310nm, transmission distance: 20km, SC interface, support DDM function, support hot plug and pull.
Power Module	
2633	1.25G SFP optical module transfers to 10/100/1000M RJ45 port.
10G Optical Module	
6630	SFP+ optical module,10G Multi-mode dual fiber 850nm, transmission distance: 300m, LC interface, support DDM function,support hot plug and pull.
7832	SFP+ optical module,10G Single-mode dual fiber 1310nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.
7832-33	SFP+ optical module,10G Single-mode single fiber TX1330nm/RX1270nm , transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.
7832-27	SFP+ optical module,10G Single-mode single fiber TX1270nm/RX13300nm , transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.