

VT-G24TP

28-Port Full Gigabit Managed PoE Switch



Overview

The VT-G24TP is a gigabit L2+ managed PoE fiber switch independently developed by VidoNet. It has 24*10/100/1000Base-T adaptive RJ45 ports and 4*100/1000Base-X uplink SFP fiber . 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-TX Fast Ethernet RJ45 PoE ports
- 4*1000BASE-X SFP fiber ports
- 1*RS232 console port (115200,N,8,1)

Power Over Ethernet

- Up to 24 ports of IEEE 802.3af/at devices powered
- Auto detects powered device
- Circuit protection prevents power interference between ports
- Remote power feeding up to 100m in standard mode and 250m in extend mode

The VT-G24TP has L2+ network management function, supports IPV4/ IPV6 management, software static routing forwarding, complete security protection mechanism, perfect ACL/ QoS strategy, and rich VLAN functions, and is easy to manage and maintain. Support various network redundancy protocols STP/ RSTP/ MSTP (< 50ms) and (ITU-R T G. 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-G24TP
Interface Characteristics	
Fixed Port	24*10/100/1000Base-T PoE ports (Data/Power) 4*100/1000Base-X 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	Gigabit optical fiber interface, default no include optical module (Optional Single-mode/ Multi-mode, single fiber/ dual fiber optical module. LC)
Optical Cable/	Multi-mode: 850nm/ 0-500m, Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km
Chip 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	56Gbps (non-blocking)
Forwarding Rate @64byte	38.69Mpps

CPU	500MHz
DRAM	1G
FLASH	128M
MAC	8K
Buffer Memory	8M
Jumbo Frame	9.6K
LED Indicator	Power: PWR(Yellow), System: SYS(Yellow), Network: Link (Yellow), PoE: PoE (Green), 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
Power Supply Pin	1/2(+) 3/6 (-)
Max Power Per Port	30W, IEEE 802.3 af/at
Total PWR / Input Voltage	400W/ (AC100-240V)
Power Consumption	Standby<18W, Full load<380W
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~+75°C, 5%~95% RH Non condensing
Dimension (L*W*H)	440*290*44.5mm

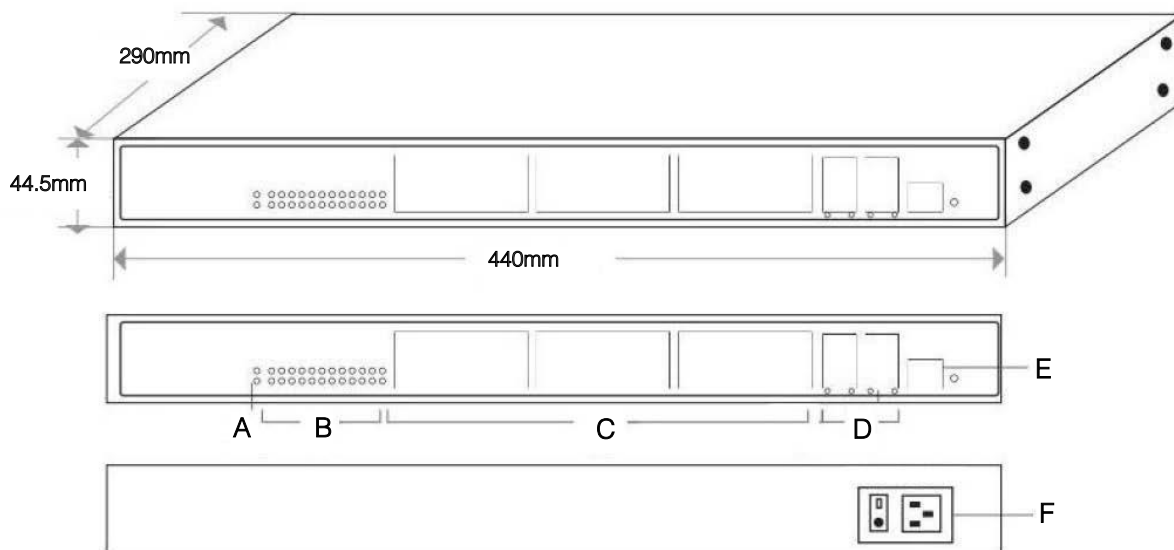
Net /Gross Weight	3.8kg/ 4.7kg
Installation	Desktop, 1U/19" cabinet
Certification	
Lightning Protection	Lightning protection: 4KV 8/20us, Protection level: IP30
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B,RoHS
Network Management Feature	
Interface	Port temperature protection settings IEEE 802.3x flow control (Full duplex) Broadcast storm control based on port speed Port EEE Green Ethernet energy-saving configuration Limit the speed of the message traffic at the inbound and outbound ports,with mini granularity of 64Kbps
L3 Feature	Static routing/ default routing max 128 entries L2+ network management, ARP protocol, max 1024 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 13 aggregation groups and 8 ports per group
Spanning Tree	STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)
Ring Network Protocol	G.8032 (ERPS), Recovery time less than 20ms 255 Ring at most, Max 250 devices per ring
Multicast	MLD Snooping, Multicast VLAN IGMP Snooping v1/v2, Max 1024 multicast groups, Fast log out
Port Mirroring	Bidirectional data mirroring based on port
QoS	Queue Scheduling Algorithm (SP, WRR, SP+WRR) Flow-based rate limiting, Flow-based packet filtering Flow-based redirection, Diff-Serv QoS, Priority Mark/ Remark 8*Output queues of each port, 802.1p/DSCP priority mapping
ACL	ACL issued based on port and VLAN 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.

Security	<p>Port-based IEEE802.1X authentication MAC address the learning number limit SSL ensures data transmission security Port isolation, MAC address the black hole IP+MAC+VLAN+port four-way binding function User hierarchical management and password protection AAA & RADIUS & TACACS+ certification, ARP inspection IP source address protection, Host data backup mechanism SSH 2.0 provides a secure encrypted channel for user login DoS attack prevention, Port broadcast message suppression ARP message rate limit function, ARP intrusion detection function</p>
DHCP	DHCP Client, DHCP Snooping, DHCP Server, DHCP Relay
Management	<p>System work log, Link Layer Discovery Protocol NTP clock, Cable length detection, SNMP V1/V2/V3 Ping detection, Web network management (HTTPS) NMS platform cluster management (LLDP+SNMP) One click recovery, View CPU real-time utilization status FTP, TFTP, Xmodem, SFTP file upload and download management 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 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.

DIMENSION



- A. Work indicator
- B. PoE work indicator
- C. 24*10/100/1000M PoE ports
- D. 4*100/1000M SFP fiber
- E. Console port
- F. Power input port AC100-240V,50/60Hz

APPLICATION

