

VT-G24TPA

28-Port 10G Uplink L2+
Managed PoE Fiber Switch



VT-G24TPA

Overview

The VT-G24TPA is a 10G uplink managed PoE fiber switch independently developed by VidoNet. It has 24*10/100/1000M 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)

Power Over Ethernet

- Max Power Per Port 30W, IEEE 802.3 af/at
- PoE Power Budget: 400W
- Auto detects powered device
- Packet Forwarding Rate: 128Gbps
- Forwarding Rate@64byte: 95.23Mpps
- Lightning protection: 4KV 8/20us
- Protection level: IP30

The VT-G24TPA 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-G24TPA
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-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
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 802.3ae 10GBase-LR/SR, IEEE 802.3x
Forwarding Mode	Store and Forward (Full Wire Speed)

Switching Capacity	128Gbps (non-blocking)
Forwarding Rate@64byte	95.23Mpps
CPU	800MHz
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), PoE: PoE (Green)
Reset Switch	Yes, press and hold the switch for 10 seconds and release it to restore the factory settings
PoE & Power Supply	
PoE & Power Supply	Port 1-24
PoE Management	PoE working status display, Port PoE on/off, af/at power distribution
Power Supply Pin	1/2(+) 3/6(-)
Max Power Per Port	30W, IEEE 802.3 af/at
Power Consumption	Standby<20W, Full Load<380W
Total PWR / Input Voltage	400W/ (AC100-240V)
Power Supply	Built-in power adapter, AC100~240V 50-60Hz, 5.0A
Physical Parameter	
Operation TEMP/ Humidity	-20°C~+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

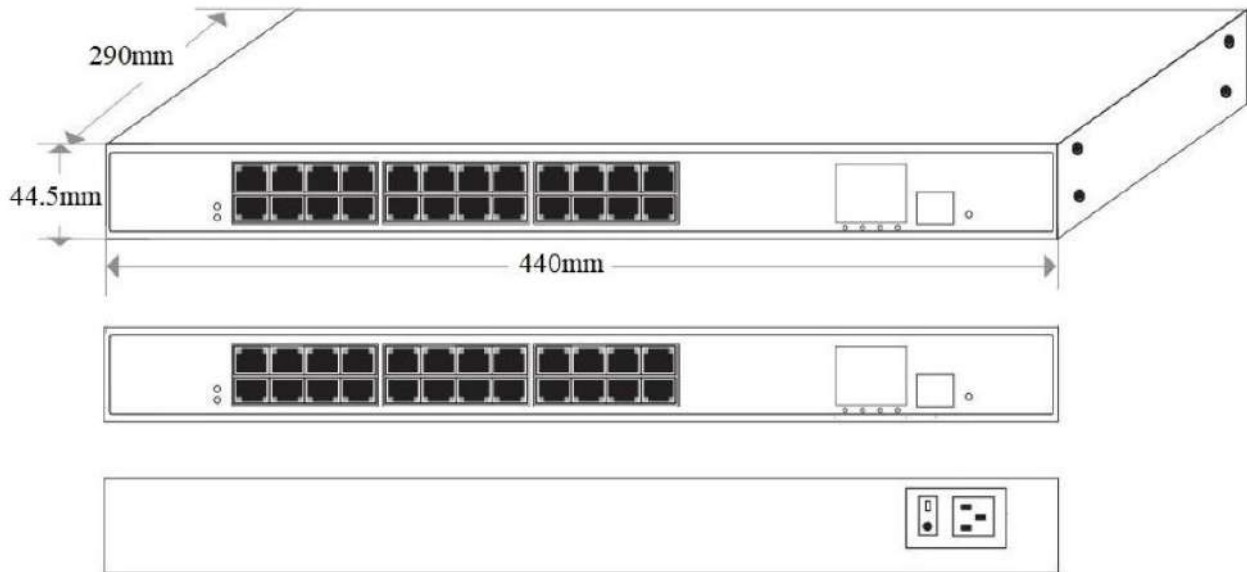
Net /Gross Weight	4.0kg /4.8kg
Installation	Desktop, 1U/19" cabinet
Certification	
Lightning Protection	Lightning protection: 4KV 8/20us, Protection level: IP30
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B,RoHS
Network Management Feature	
Interface	IEEE802.3x flow control (full duplex) Port exception protection mechanism Port real-time flow management (Flow Interval) Broadcast storm suppression based on port rate Optical port SFP module DDMI real-time digital diagnosis Port EEE Green Ethernet Energy-Saving configuration and status view Limit the rate of incoming and outgoing packet traffic, with mini granularity is 16Kbps and max 1Gbps
L3 Feature	IPv4/IPv6 static routing, max 128 entries, dual-stack management L2+ network management function, ARP protocol, max 1024 entries
VLAN	VLAN based on MAC, VLAN based on the protocol Port configuration of Access, Trunk, Hybrid, GVRP VLAN protocol (4K) VLAN based on port, IEEE802.1q, Voice VLAN, QinQ configuration
Port Aggregation	LACP dynamic aggregation, static aggregation Max 14 aggregation groups and max 8 ports per group.
Spanning Tree	STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)
ERPS Ring Network Protocol	Support ERPS ring network, Recovery time less than 20ms, ITU-T G.8032
Multicast	MLD Snooping, Multicast VLAN IGMP Snooping v1/v2, Max 1024 multicast groups, Fast log out
Mirroring	Bidirectional traffic mirroring for basic ports Supports 1-to-multiple mirroring, supports up to 4 port sessions
QoS	Queue scheduling algorithm (SP, WRR, SP+WRR) Flow-based rate limiting, Flow-based packet filtering Flow-based based redirection, 8*Output queues of each port 802.1p/ DSCP priority mapping, Diff-Serv QoS, Priority Mark/ Remark

ACL	<p>ACL distribution based on port and VLAN</p> <p>L2-L4 packet filtering function, matching the first 80 bytes message, and provides ACL definitions 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 certification</p> <p>Port broadcast message suppression</p> <p>SSL ensures data transmission security</p> <p>Anti-DoS attack, IP source address protection</p> <p>Port isolation, ARP intrusion detection function</p> <p>Limit on the number of MAC addresses learned</p> <p>AAA&RADIUS certification, 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>Host data backup mechanism, ARP message rate limiting function</p>
DHCP	DHCP Client, DHCP Snooping, DHCP Server
Management	<p>NTP clock, Link Layer Discovery Protocol (LLDP)</p> <p>System work log, Web network management (https)</p> <p>SNMP V1/V2/V3, View CPU real-time utilization status</p> <p>One click recovery, Ping detection, Cable status check</p> <p>ONV NMS platform cluster management (LLDP+SNMP)</p> <p>Console/ AUX Modem/ Telnet/ SSH2.0 and CLI configuration</p> <p>FTP, TFTP, Xmodem, SFTP file upload and download management</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



APPLICATION

