

VT-G24TPI

30-Port 2.5G Managed PoE Switch



Overview

The VT-G24TPI is a 2.5G managed PoE fiber switch independently developed by VidoNet. It has 24*10/100/1000/2500Base-T adaptive RJ45 ports and 2*1/10G RJ45 ports and 4*1/10G SFP+ fiber ports. Port 1-24 can support the IEEE 802.3af/at PoE standard, and the 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

- 1*Console RS232 port (115200, N, 8, 1)
- 2*1/10G uplink RJ45 ports (Data)
- 4*1/10G uplink SFP+ fiber ports (Data)
- 24*10/100/1000/2500Base-T PoE ports (Data/Power)

Feature

- 2.5G access, Uplink 1/10G RJ45/SFP+ fiber port
- Smart PoE power supply
- Strong business processing capability
- Stable and reliable
- Easy O&M management
- Support port isolation and port broadcast storm suppression.
- Support port+MAC binding and IP+MAC+ port binding functions.

The VT-G24TPI has L3 network management function, supports IPV4/ IPV6 management, dynamic route full-speed 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 to improve link backup and network reliability.

L3 Management

- L3 network management function, IPV4/ IPV6 dual-stack management
- L3 routing and forwarding, support communication between different network segments and different VLAN

Specifications

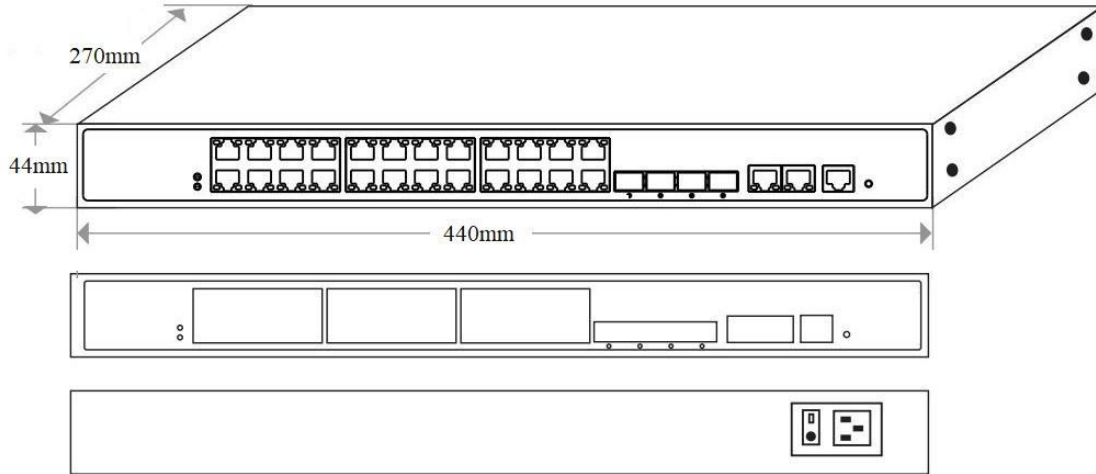
Model No.	VT-G24TPI
Interface Characteristics	
Fixed Port	1*Console RS232 port (115200, N, 8,1) 2*1/10G uplink RJ45 ports (Data) 4*1/10G uplink SFP+ fiber ports (Data) 24*10/100/1000/2500Base-T PoE ports (Data/Power)
Ethernet Port	Port 1-24 can support 10/100/1000/2500Base-T auto-sensing, full/ half duplex MDI/ MDI-X self-adaption
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP (≤100 meters) 100BASE-TX: Cat5 or later UTP (≤100 meters) 1000BASE-T: Cat5e or later UTP (≤100 meters) 2500BASE-T: Cat6a 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/ 0-550m, 0-300m(10G), Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km
Chip Parameter	
Network Management Type	L3
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 802.3bz 2.5GBase-T, IEEE 802.3ae 10GBase-SR/LR, IEEE 802.3x
Forwarding Mode	Store and Forward (Full Wire Speed)
Switching Capacity	240Gbps (non-blocking)
Forwarding Rate @64byte	148.8Mpps

CPU	Dual Core 1G
DRAM	2G
FLASH	256M
MAC	32K
Buffer Memory	16M
Jumbo Frame	12K
LED Indicator	Network: Link/ Act (Yellow), Fiber port: L/A (Green), Power: PWR (Yellow), System: SYS (Yellow), 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 Port	Port 1-24
PoE Management	Port PoE working status display, Port PoE on/off, af/at power allocation
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*270*44mm

Net /Gross Weight	4.0kg/ 4.8kg
Installation	Desktop, 1U/19" cabinet
Certification	
Lightning Protection	Protection level: IP30, Lightning protection: 6KV /8KV Electrostatic discharge protection
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15, 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 SFP optical module DDMI real-time digital diagnosis Port EEE Green Ethernet Energy-Saving configuration and status view Limit the rate of packet traffic on incoming and outgoing ports, the mini granularity is 16Kbps and max 1Gbps
L3 Feature	IPV4 Equal Cost Routing NG protocol, max 1024 entries ARP protocol, max 1024 entries IPV4/IPV6 VRRP, max group is 255 Pingv6, Telnetv6, TFTPv6, DNSv6, ICMPv6 IPV4/IPV6 VLANIF interface supports up to 64 IPV4/IPV6 static route/ default route, support up to 64 entries IPV4 dynamic routing, RIPv1/v2, OSPFv2, routing 500 entries L3 network management function, IPV4/IPV6 dual-stack management L3 routing and forwarding, support communication between different network segments and different VLAN
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 15 aggregation groups and max 8 ports per group.
Spanning Tree	STP BPDU Guard, BPDU filtering and BPDU forwarding STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)
ERPS Ring Network	ERPS ring network, Recovery time less than 20ms, ITU-T G.8032
Multicast	Multicast VLAN, User quick log out, MLD Snooping, MVR (Multicast VLAN Registration), IGMP Snooping v1/v2/v3 and 1024 multicast groups at most
Mirroring	Bidirectional traffic mirroring for basic ports one-to-multiple mirroring, supports up to 4 port sessions

QoS	<p>Flow-based Rate Limiting, Flow-based redirection</p> <p>Queue Scheduling Algorithm (SP, WRR, SP+WRR)</p> <p>Flow-based Packet Filtering, 8*Output queues of each port</p> <p>802.1p/DSCP priority mapping, Diff-Serv QoS, Priority Mark/Remark</p>
ACL	<p>ACL is 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 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>IP Source Guard function, AAA&RADIUS certification</p> <p>Anti DoS attack, Port broadcast message suppression</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>IP source address protection, ARP message speed limit function</p> <p>Port isolation, MAC address learning limit, MAC address black hole</p>
DHCP	<p>DHCP Client, DHCP Snooping, DHCP Server</p>
Management	<p>System work log, Link Layer Discovery Protocol</p> <p>HTTP, TFTP file upload and download management</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>Console/ AUX Modem/ Telnet/ 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</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>

DIMENSION



APPLICATION

