

### VT-G16TP

#### 20-Port Full Gigabit Managed PoE Switch



#### Overview

The VidoNet VT-G24TP is a gigabit L2+ managed PoE fiber switch independently developed by VidoNet. It has 16\*10/100/1000Base-T adaptive RJ45 ports and 4\*100/1000Base-X uplink SFP fiber. Port 1-16 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

- 16\*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 16 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 VidoNet VT-G16TP 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-G16TP
<b>Interface Characteristics</b>	
Fixed Port	16*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 1-16 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
<b>Chip Parameter</b>	
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	29.76Mpps

CPU	500MHz
DRAM	1G
FLASH	256M
MAC	8K
Buffer Memory	4.1M
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
<b>PoE &amp; Power Supply</b>	
PoE Port	Port 1-16
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	250 Watt/ (AC100-240V)
Power Consumption	Standby<16W, Full load<240W
Power Supply	Built-in power supply, AC100~240V 50-60Hz, 4.1A
<b>Physical Parameter</b>	
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

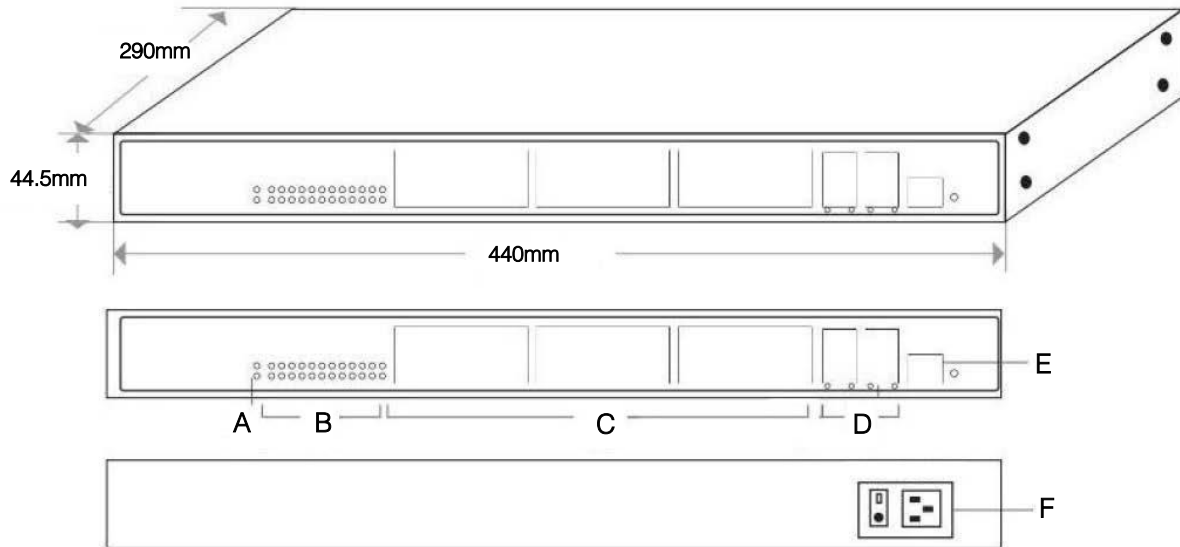
Net /Gross Weight	3.6kg/ 4.6kg
Installation	Desktop, 1U/19" cabinet
<b>Certification</b>	
Lightning Protection	Lightning protection: 4KV 8/20us, Protection level: IP30
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B,RoHS
<b>Network Management Feature</b>	
Interface	IEEE802.3x flow control (Full duplex) Broadcast storm suppression based on port rate Port real-time traffic management (Flow Interval) Limit the rate of packet traffic on incoming and outgoing ports, mini granularity is 16Kbps and max is 1Gbps
L3 Feature	IPV4 static route/ default route
VLAN	Port-based VLAN (4K), VLAN based on the protocol IEEE802.1q, Port configuration of Access, Trunk, Hybrid
Port Aggregation	LACP dynamic aggregation, Static aggregation Max 10 aggregation groups and 8 ports per group
Spanning Tree	RSTP (IEEE 802.1w)
ERPS	ERPSv2
Multicast	Multicast VLAN, User quick exit mechanism, IGMP Snooping v1/v2
Port Mirroring	Bidirectional data mirroring based on port
QoS	802.1p/ DSCP priority mapping, Diff-Serv QoS Queue scheduling algorithm (SP, WRR, WFQ) Flow-based rate limiting, Flow-based packet filtering Flow-based based redirection, 8*Output queues of each port
ACL	Port-based and VLAN-delivered ACL 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.

Security	<p>Port isolation, Port broadcast message suppression</p> <p>Port-based and Mac-based IEEE802.1X certification</p> <p>User hierarchical management and password protection</p> <p>AAA &amp; RADIUS certification, IP source address protection</p>
DHCP	DHCP Client, DHCP Snooping, DHCP Server, DHCP Relay
Management	<p>Web network management (https), Ping detection</p> <p>NMS platform cluster management (LLDP+SNMP) One click recovery, View CPU real-time utilization status Link Layer Discovery Protocol (LLDP), System work log</p> <p>Console/ Telnet and CLI configuration, SNMP V1/V2/V3</p> <p>NTP clock, HTTP 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.

### DIMENSION



- A. Work indicator
- B. PoE work indicator
- C. 16\*10/100/1000M PoE ports
- D. 4\*100/1000M SFP fiber
- E. Console port
- F. Power input port AC100-240V,50/60Hz

### APPLICATION

