

VX-GPF1626

Web Smart+ GbE Managed PoE+ Switch



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Overview

The VX-GPF1626 is a Web Smart+ Managed PoE+ Switch offering powerful L2 features, Layer 3 Static Routing, and reliable PoE functionality. The unit transports Ethernet services via fiber or copper connections.

The VX-GPF1626 is equipped with 24 (10/100/1000M) RJ45/PoE+ interfaces that support 802.3at/af devices and boasts a total PoE budget of 370W. The unit also features 2 Combo GbE RJ45/SFP ports.

The VX-GPF1626 provides high HW performance ideal for SMBs and Enterprises. The VX-GPF1626 offers an intuitive management interface that makes it simple for new users to learn how to manage the unit.

Benefits

- **Reliable Ethernet Switch for Enterprise-class**

The Web Smart+ managed GBE PoE switch features advanced management features including Layer 3 static routing, DHCP server, IPv6 support, LLDP, etc. The unit also boasts basic security features such as ACL, RADIUS and IEEE 802.1x to protect your network from unauthorized access.

- **User-Friendly and Intuitive Device Management System**

The VX-GPF1626 offers an intuitive management interface that makes it simple for new users to learn how to manage the unit. The user interface makes it simple to manage and install powered devices such as IP phones, IP cameras or access points commonly found in enterprise applications.

- **Lower Total Cost of Ownership (TCO) with Energy-efficient Design**

The unit is designed to help customers to reduce power consumption and lower the TCO with IEEE's 802.3az Energy Efficient Ethernet features.

- **Advanced Power over Ethernet Management Features**

The unit includes PoE+ management features to power IP devices with power-saving features such as Power scheduling and PoE configuration.

Key Features

- Web Smart+ features provide easier manageability, basic security and QoS
- Built in Device Management System (DMS)
- DHCP Server
- IPv4/IPv6 L3 static route
- PoE Port configuration and scheduling
- 802.3at high power PoE plus standard
- IEEE 802.3az EEE Energy Efficient Ethernet standard for green Ethernet

Specifications

Port Configuration

- 24 RJ45 (10M/100M/1G)
- 2 RJ45/SFP Combo Uplinks (100M/1G)

Hardware Performance

- Forwarding Capacity: 36.68 Mpps
- Switching Capacity: 52 Gbps
- Mac Table: 32 K
- Jumbo Frames: 9216 Bytes

Environmental Range

- Operating Temperature: 0 to 45°C (32° to 113°F)
- Storage Temperature: -20° to 70°C (-4° to 158°F)
- Operating Humidity: 10% ~ 90% (non-condensing)
- Altitude: < 3,000 M (< 10,000 ft.)

Dimension

- 442mm x 44mm x 211mm (17.4in x 1.73in x 8.3in)

Weight

- 5.9 lbs (2.7 kg)

Voltage

- 100-240 VAC

Frequency

- 50 ~ 60 Hz

PoE Power

- 370 W (Each of port 1-24 support PoE/PoE+ within available PoE Power)

Regulatory Compliance

- CE
- FCC Part 15 Class A

Software Features

Layer 2 Switching

Spanning Tree Protocol (STP)

- Standard Spanning Tree 802.1d
- Rapid Spanning Tree (RSTP) 802.1w
- Multiple Spanning Tree (MSTP) 802.1s

Trunking

- Link Aggregation Control Protocol (LACP) IEEE 802.3ad
- Up to 13 groups
- Up to 4 ports per group

VLAN

- Support for up to 4K VLANs simultaneously (out of 4096 VLAN IDs)
- Port-based VLAN
- 802.1Q tag-based VLAN
- Management VLAN
- Q-in-Q (double tag) VLAN

IGMP v1/v2/v3 Snooping

- IGMP limits bandwidth-intensive multicast traffic to only the requesters. Supports 1024 multicast groups

IGMP Querier

- IGMP querier is used to support a Layer 2 multicast domain of snooping switches in the absence of a multicast router

IGMP Proxy

- IGMP snooping with proxy reporting or report suppression actively filters IGMP packets in order to reduce load on the multicast router

Device Management System (DMS)

Graphical Monitoring

- Topology view: Support intuitive way to configure and manage switches and devices with visual relations.
- Floor view: It's easy to drag and drop PoE devices and help build you to build smart workforces.
- Map view: Enhance efficiency to drag and drop devices and monitor surroundings on Google map

Find my Switch

- Search your real switches quickly and manage directly

Traffic Monitoring

- Display visual chart of network traffic of all devices and monitor every port at any time from switches

Trouble Shooting

- Network diagnostic between master switch and devices
- Support protection mechanism, such as rate-limiting to protect your devices from brute-force downloading

Layer 3 Switching

IPv4/ IPv6 Static Routing

- IPv4/ IPv6 Unicast: Static routing

Security

Secure Shell (SSH)

- SSH secures Telnet traffic in or out of the switch, SSH v1 and v2 are supported

Secure Sockets Layer (SSL)

- SSL encrypts the http traffic, allowing advanced secure access to the browser-based management GUI in the switch

IEEE 802.1X

- IEEE802.1X: RADIUS authentication, authorization and accounting, MD5 hash, guest VLAN, single/multiple host mode and single/multiple sessions
- Supports IGMP-RADIUS based 802.1X
- Dynamic VLAN assignment

Layer 2 Isolation Private VLAN Edge

- PVE (also known as protected ports) provides L2 isolation between clients in the same VLAN. Supports multiple uplinks

Port Security

- Locks MAC addresses to ports, and limits the number of learned MAC address

Storm Control

- Prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port

Quality of Service

Hardware Queue

- Supports 8 hardware queues

Scheduling

- Strict priority and weighted round-robin (WRR)
- Queue assignment based on DSCP and class of service

Classification	<ul style="list-style-type: none">• Port based• 802.1p VLAN priority based• IPv4/IPv6 precedence / DSCP based• Differentiated Services (DiffServ)• Classification and re-marking ACLs
Rate Limiting	<ul style="list-style-type: none">• Ingress policer• Egress shaping and rate control• Per port
Management	
DHCP Server	<ul style="list-style-type: none">• Supports DHCP server to assign IP to DHCP clients
Zero Touch Upgrade	<ul style="list-style-type: none">• Upgrades single switch automatically when you get notification
Port Mirroring	<ul style="list-style-type: none">• Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe. Up to N-1 (N is Switch's Ports) ports can be mirrored to single destination port. A single session is supported.
UPnP	<ul style="list-style-type: none">• The Universal Plug and Play Forum, an industry group of companies working to enable device-to-device interoperability by promoting Universal Plug and Play
IEEE 802.1ab (LLDP)	<ul style="list-style-type: none">• Used by network devices for advertising their identities, capabilities, and neighbors on an IEEE 802ab local area network• Support LLDP-MED extensions
Web GUI Interface	<ul style="list-style-type: none">• Built-in switch configuration utility for browser-based device configuration
Dual Image	<ul style="list-style-type: none">• Independent primary and secondary images for backup while upgrading
SNMP	<ul style="list-style-type: none">• SNMP version1, 2c and 3 with support for traps, and SNMP version 3 user-based security model (USM)

Firmware Upgrade

- Web browser upgrade (HTTP/ HTTPS) and TFTP
- Upgrade through console port as well

NTP

- Network Time Protocol (NTP) is a networking protocol for clock synchronization between computer systems over packet-switched

Other Management

- HTTP/HTTPS; SSH
- DHCP Client/ DHCPv6 Client
- Cable Diagnostics
- Ping
- Syslog
- IPv6 Management

Power over Ethernet (PoE)

Port Configuration

- Supports per port PoE configuration function

PoE Scheduling

- Supports per port PoE scheduling to turn on/off the PoE devices (PDs).

Auto-Checking

- Checks the link status of PDs. Reboot PDs if there is no responses.

Power Delay

- The switch provides power to the PDs based on delay time when PoE switch boots up, in order to protect switch from misuse of the PDs