GV-APOE1612 16-Port Gigabit L2+ Web Management PoE Switch



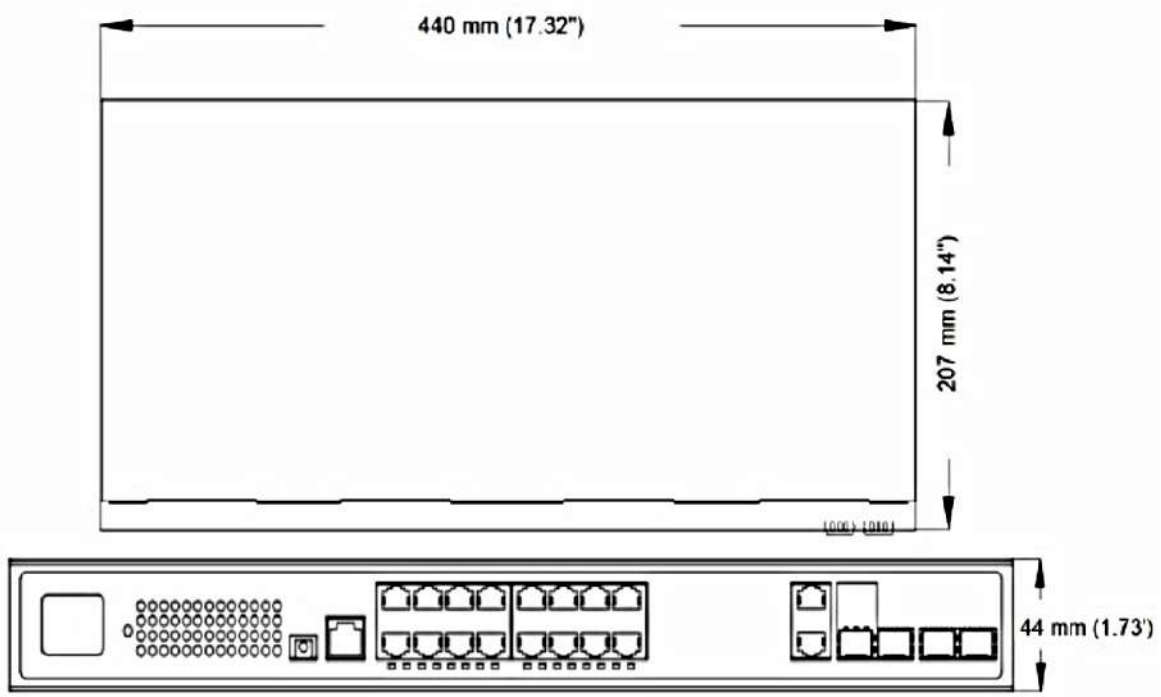
- 16-Port 10/100/1000BaseT(X) PoE+ Web Managed PoE Switch with 2 SFP uplink ports and 2 combo ports (RJ-45/SFP selectable per port)
- IEEE 802.3af/at compliant
- VLAN, QoS, RSTP, IGMP Snooping, IPV4, IPV6, Static Routing, Static ARP, DHCP Server, Link Aggregation, LACP, Port Security, Bandwidth Control, Storm Control
- PD Alive Monitor
- ONVIF Discover
- PoE Schedule
- PoE connection for network cables up to 250 m (820 ft) at 10 Mbps
- Max. 250 W PoE Budget
- 19” Rack-mount
- Up to 16 GV-IP Cameras support

Introduction

GV-APOE1612 is a 16-Port 10/100/1000BaseT(X) PoE+ Web Managed PoE Switch with 2 SFP uplink ports and 2 combo ports (RJ-45/SFP selectable per port). The switch supports IEEE 802.3af/at Power over Ethernet standard for a maximum PoE budget of 250 W. It not only eliminates the need for power cables to connect your powered devices (PD), such as IP cameras, but it also allows power supply over network cables of up to 250 m (820 ft) in length, at 10 Mbps.

Perfect for medium or large network environments to strengthen network connection and efficiency, the switch provides exceptionally smart Web management features, including VLAN, QoS, RSTP, IGMP Snooping, IPV4, IPV6, Static Routing, Static ARP, DHCP Server, and more. In addition, GV-APOE1612 gives you the option of installing it in a 19” cabinet with a rack-mount kit or underneath a desk.

Dimensions



Specifications

Ethernet	
Layer Supported	L2+ (DHCP Server, Static Routing, Static ARP)
Ports	
Number of Ports	16-port 10/100/1000BaseT(X) with RJ-45 Connectors, PoE+ 2-port SFP Uplink 2-port Combo (RJ-45/SFP selectable per port) 1-port Console (Not functional)
Performance	
MAC Address	8 K, Auto-Learning, Auto-Aging
Buffer Memory	4.1 Mbits
Transmission Method	Store and Forward
Transmission Media	10Base-T: Cat 3, 4, 5 UTP 10/100Base-T(X): Cat 5 UTP 1000Base-T: Cat 5e, 6 UTP 100Base-FX: MMF, SMF 1000Base-X: MMF, SMF
Filtering/Forwarding Rates	29.76 Mpps
Backplane Capacity	40 Gbps
Smart Features	
MAC Address Table	MAC Aging Time, MAC Filter, MAC Notification
Basic Management	Telnet/SSH, HTTP/HTTPS, SSL/TLS, FTP/TFTP, Syslog, SNMP(v1/v2c/v3),SNMP Trap, SNTP/NTP, CPU protect, Software/Hardware Watchdog, Firmware Upgrade/Backup, Ping/Traceroute
Port Config	Bandwidth Control, Flow Control, EEE, MTU, CFM, EFM OAM, DDM, Storm Control, Port Isolation, Port Security, Virtual Cable Test, ULDP/Cisco UDLD
Discovery	LLDP, LLDP-MED
VLAN	IEEE 802.1Q (4K VLANs), Access/Trunk/Hybrid, Private VLAN, VLAN Filter, MAC-Based VLAN, Protocol-Based VLAN, IP Subnet-Based VLAN, Voice VLAN, GVRP/GMRP, QinQ/Selective QinQ/Flexible QinQ, VLAN Translation/N:1 VLAN Translation, Guest VLAN
Network Loop Detection	Loopback Detection, ERPS
Spanning Tree	STP/RSTP/MSTP (supports 64 instances), BPDU Guard, BPDU Tunnel, Root Guard
ARP	ARP Scanning Prevention, ARP Spoofing Prevention, ARP Guard, Gratuitous ARP, Dynamic ARP Inspection, ARP Quantity Control
IPv4 Related Function	ICMP, Control Multicast, Multicast VLAN, IGMP, DHCP
IPv6 Related Function	IPv6 Basic, DHCPv6, IPv6 Multicast Routing, IPv6 Features
Quality of Service (QoS)	Basic, Scheduling, PolicyMap Stream, Policing, Rewriting, Queuing
ACL	IP ACL, MAC ACL, IP-MAC ACL, User-defined ACL, ACL Features
Security	IEEE 802.1x, MAB, MAC Address Count Limit, IP Address Count Limit, Access Management, DoS Attack Prevention, TACACS+, RADIUS, SSL
ONVIF	ONVIF Detect, ONVIF Discover, ONVIF Server
Redundancy Related Function	MRPP, ULPP, ULSM
Mirror	One-to-One, Many-to-One, CPU-Based Mirroring, Flow-Based Mirroring, RSPAN, Port-Based Mirroring (supports ingress, egress, and both)
Port Management	ON/OFF Config, PD Alive Checking, 7/24 On/Off Scheduling
L2+ Features	DHCP Server, Static Routing, Static ARP
Power over Ethernet	
PoE Standard	IEEE 802.3af/at compliant
PoE Max Power per Port	30 W
PoE Power Budget	250 W
PoE Mode	Mode A
Mechanical	
LED Indicators	Per Port: Link/Act PoE Act/Status Power System
General	
Dimensions (H x W x D)	44 x 440 x 207 mm (1.73” x 17.32” x 8.14”)
Weight	2.56 kg (5.64 lb)
Fan Quantity	2

Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)
Storage Temperature	-40°C ~ 70°C (-40°F ~ 158°F)
Humidity	10% to 90% RH (non-condensing)
Surge Protection	Differential Mode ±4 kV, Common Mode ±6 kV
Power Requirements	
Power Input	100 ~ 240 V / AC, 50 ~ 60 Hz
Max Power Consumption	280 W
Standards and Certifications	
Standards	IEEE 802.3i - 10BaseT IEEE 802.3u - 100BaseTX IEEE 802.3ab - 1000BaseT IEEE 802.3z - 1000BaseSX/LX IEEE 802.3af - Power Over Ethernet Plus (PoE) IEEE 802.3at - Power Over Ethernet Plus (PoE+) IEEE 802.3az - Energy Efficient Ethernet (EEE) IEEE 802.3x - Full-Duplex Ethernet Flow Control IEEE 802.1Q - VLAN IEEE 802.1v - Protocol VLAN IEEE 802.1p - Class of Service (CoS) IEEE 802.1D - Spanning Tree Protocol (STP) IEEE 802.1w - Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s - Multiple Spanning Tree Protocol (MSTP) IEEE 802.3ad - Link Aggregation Control Protocol (LACP) IEEE 802.1AB - Link Layer Discovery Protocol (LLDP) IEEE 802.1X - Port-Based Network Access Control (PNAC), including Extensible Authentication Protocol - Transport Layer Security (EAP-TLS)
Certifications	CE, FCC Class A, RoHS compliant, IEC 61000-4-5 Lv.5

Note:

1. The switch is a plug-and-play device and compatible with all SFP modules.
2. Specifications are subject to change without notice.

Overview

Front View



Rear View



Accessories

Name	Details
GV-LC 	The SFP transceiver complies with IEEE 802.3z 1000BaseSX Ethernet, and provides the media transmission distance up to 220 / 550 m (772 / 1804 ft).

GV-LC10		The SFP transceiver complies with IEEE 802.3z 1000BaseLX Ethernet, and provides the media transmission distance up to 10 km (6 mi).
GV-LC V2		The SFP transceiver complies with IEEE 802.3z 1000BaseSX Ethernet, and provides the media transmission distance up to 550 m (1804 ft).
GV-LC10 V2		The SFP transceiver complies with IEEE 802.3z 1000BaseLX Ethernet, and provides the media transmission distance up to 20 km (12 mi).

Packing List

1. GV-APOE1612
2. User Guide
3. Download Page
4. Power Cord
5. Screw x 8
6. Rack Mount Kit x 2
7. Rubber Feet x 4