L2 Managed Switch - 8FE PoE + 2GE Combo SFP

FGP-1072

H/W Version: 1

LevelOne FGP-1072 is a Layer 2 Managed switch with 8 x 100Base-TX PoE ports and 2 x 1000Base-T combo ports associated with SFP (Small Form Factor Pluggable) slots. This switch is IEEE802.3af compliant, and provides power and data over a single Ethernet cable to any PoE device, with a total power budget of 130W. The built-in PoE management allows it to remotely detect and turn on/off a connected PoE PD (Powered Device).

Despite its affordable pricing, FGP-1072 is equipped with advanced features such as port-based IEEE 802.1Q VLAN, IEEE 802.1D/w/s Spanning Tree, IGMP, IEEE 802.1X Access Control, DHCP Snooping and Single IP Management which allows users to manage up to 16 units under the same web interface. The FGP-1072 is a scalable and cost-effective solution for workgroups and edge deployments responsible for network development.

Key Features

- 8 PoE Fast Ethernet ports + 2 Gigabit combo (RJ-45/ SFP) ports
- IEEE 802.3af PoE compliant to simplify deployment and installation
- Multicast Internet Group Management for efficient multimedia transmission such as IPTV or network camera
- IEEE 802.3ad LACP for auto port aggregates of up to 4 groups, 4 ports per group
- Single IP Management supports up to 16 switches (GSW-0890/GSW-2693/GSW-1291/GSW-2690/FGP-1072/FGP-2472)
- IEEE 802.1X port-based authentication with Access Control List (ACL) of up to 256 entries for easy network security
- IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) and port mirroring
- IEEE 802.1Q VLAN allows network segmentation to enhance performance and security
- QoS control for traffic prioritization and bandwidth management
- Total PoE power budget: 130W, up to 15.4W per port

Work Well With

FCS-3091
2-Megapixel Fish-Eye PoE Dome Network Camera

WAP-6012
300Mbps Wireless Gigabit PoE Access Point

Technical Specification

Standard Compliance
IEEE 802.3 10Base-T Ethernet(Twisted-pair copper)
IEEE 802.3u 100Base-TX Ethernet(Twisted-pair copper)
IEEE 802.3ab 1000Base-T Ethernet(Twisted-pair copper)
IEEE 802.3z 1000Base-SX/LX Ethernet
IEEE 802.3x Flow Control Capability
IEEE 802.1Q VLAN
IEEE 802.1p Class of Service
IEEE 802.1X Access Control
IEEE 802.1D Spanning Tree
IEEE 802.1w Rapid Spanning Tree
IEEE 802.1s Multiple Spanning Tree
IEEE 802.3ad Link Aggregation Control Protocol (LACP)
IEEE 802.1AB LLDP (Link Layer Discovery Protocol)
IEEE 802.3af PoE Power over Ethernet (PoE)

Performance
Switching Capacity:
- 8K MAC addresses
- Supports Throughput: 5.6Gbps
- Unknown Unicast/Broadcast/Multicast Storm Suppression
- Port Mirroring

Network Interface
- 8 Fast Ethernet ports with non-blocking wise speed performance
- Port 9, 10 are Gigabit RJ-45/SFP fiber auto sense
- Auto-negotiation and Auto-MDIX
- Backpressure flow control for half duplex
- 802.3x flow control for full duplex
- Connector: 8 RJ-45 and 2 dual media, RJ-45/SFP

VLAN
- Port-base VLAN
- IEEE802.1Q tag-base VLAN, up to 4k active VLANs
- Q-in-Q is an efficient method for enabling Subscriber Aggregation.
- Multicast VLAN Registration (MVR) management

QoS
- Port Based, 802.1p and Diffserv (IPv4) QoS packet classification
- Supports two scheduling, WRR and Strict

Bandwidth Control
- Supports bandwidth rating per port ingress and egress rate limit
- FE-Port: 64~102400Kbps/GE-Port: 1024~1024000Kbps

Broadcast Storm
Multicast/Broadcast/Unknown-Unicast Storm suppression

Port Mirroring
- Support 1: N mirroring
- Supports port sniffer function with Ingress and Egress

VSM (Virtual Stacking Management)
- Up to 16 switches can be managed
- Virtual stacking, no extra stacking hardware is required
- Distributed stacking, no physical central wiring closet is needed
- Supports virtual stack of GSW-0890/GSW-2693/GSW-1291/ GSW-2690/FGP-1072/FGP-2472

Software
Layer 2 feature
Spanning Tree Protocol:
IEEE 802.1D Spanning Tree Protocol (STP)
IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)

Trunking:
IEEE 802.3ad Link Aggregation Control Protocol (LACP)
Trunk groups: 4 groups, up to 4 ports per group
GVRP
802.1Q with GVRP
Multicasting
Supports IGMPv3 snooping including active and passive mode

Security
- IEEE 802.1X access control for port based and MAC based authentication
- Management Access Policy Control
- Access control List
- IP-MAC-port binding
- DHCP Snooping (Including DHCP Option 82)
- SSL/ SSH for Management
- TACACS+ for Management Authentication

Hardware
PoE Specification
- 8 PoE ports (IEEE 802.3af)
- Endpoint with 48VDC power through RJ-45 pin 1, 2, 3, 6.
- PoE-PSE activity LED indicator.
- Auto detect powered device and consumption levels
- Supports per port power consumption monitoring
- Smart feature for PD on/off, PD detection, power level, PD status and power feeding priority
- Circuit protection to prevent power interference between ports
- Supports per port PoE State setting
- Supports per port power priority setting

LED Indication
System LED, 10/100Ethernet TP Port 1 to 8 LED, GIGA SFP Port 9 to 10 LED, 10/100/1000 TP Port 9 to 10 LED

Dimensions
280mm (W) x 164.8mm (D) x 44mm (H)

Weight
1.9Kg

Power Supply
100-240 VAC 50~60 Hz, internal , universal

PoE Power Budget
Max. 130W

Temperature
Operating: 0℃ ~ 40℃
Storage:-20℃ ~ 70℃

Humidity
Operating: 10% ~ 90% (Non-condensing)

Front & Rear View

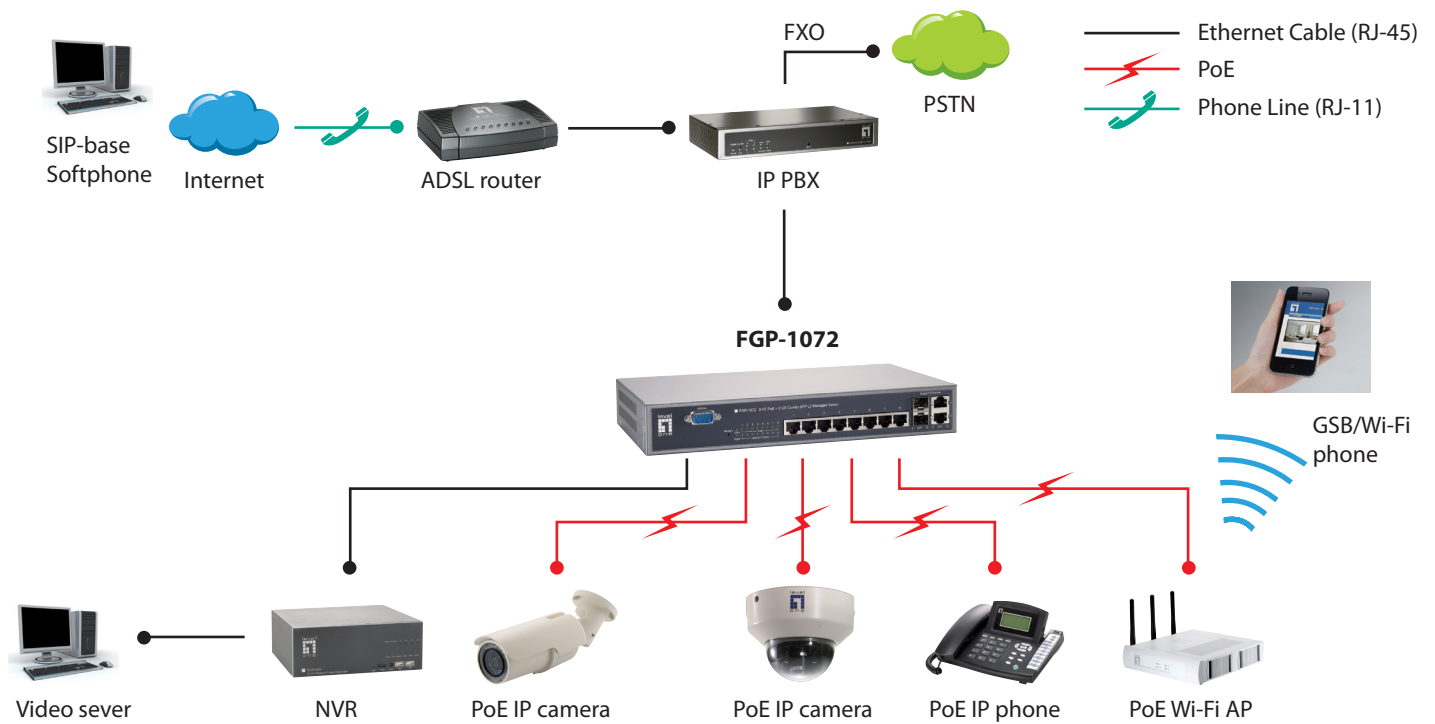1 2 3   4   5 6   7   8   8

1. RS-232 Port
2. Reset Button
3. LED Indicators
4. 10/100/1000Mbps RJ-45 PoE Ports

5. SFP (Mini-GBIC) Slot
6. 10/100/1000Mbps RJ-45 LAN Ports
7. Power Socket
8. Wall Mount

Product Diagram

——	Ethernet Cable (RJ-45)
⚡	PoE
☎	Phone Line (RJ-11)

SIP-base Softphone   Internet   ADSL router   IP PBX   FXO   PSTN

FGP-1072

GSB/Wi-Fi phone

Video sever   NVR   PoE IP camera   PoE IP camera   PoE IP phone   PoE Wi-Fi AP

Order Information   **FGP-1072:** L2 Managed Switch - 8 GE + 2 GE Combo SFP

Package Contents

FGP-1072
Power Cord
Rackmount Kit
RS-232 Console Cable
CD Manual

Optional Accessories

GVT-0300
1.25Gbps SFP Transceiver, Duplex LC connector (550m)

GVT-0301
1.25Gbps SFP Transceiver, Duplex LC connector (10km)

GVT-0302
1.25Gbps SFP Transceiver, Duplex LC connector (80km)

SFP-3001
1.25Gbps SFP Transceiver, Duplex LC connector (550m)

SFP-3211
1.25Gbps SFP Transceiver, Duplex LC connector (10km)

SFP-3611
1.25Gbps SFP Transceiver, Duplex LC connector (80km)

SFP-3111
1.25Gbps SFP Transceiver, Duplex LC connector, MLX (2km)

SFP-3411
1.25Gbps SFP Transceiver, SM, EZX, Duplex LC connector (120km)

SFP-3711
1.25Gbps SFP Transceiver, SM, EZX, Duplex LC connector (120km)

SFP-9221
1.25Gbps Bi-Di SFP Transceiver, SM, Simplex LC connector (10km)

SFP-9231
1.25Gbps Bi-Di SFP Transceiver, SM, Simplex LC connector (10km)

SFP-9321
1.25Gbps Bi-Di SFP Transceiver, SM, Simplex LC connector (20km)

SFP-9331
1.25Gbps Bi-Di SFP Transceiver, SM, Simplex LC connector (20km)

SFP-9421
1.25Gbps Bi-Di SFP Transceiver, SM, Simplex LC connector (40km)

SFP-9431
1.25Gbps Bi-Di SFP Transceiver, SM, Simplex LC connector (40km)