![level one logo]

12G + 2SFP L2 SNMP POE Switch

GSW-1291

H/W Version: 1

LevelOne's GSW-1291 is a Layer 2 POE switch to provide extensive WLAN, network IP surveillance systems, VoIP deployments and power cable free solution with the embedded management networking functions and advanced Power-over-Ethernet technology.

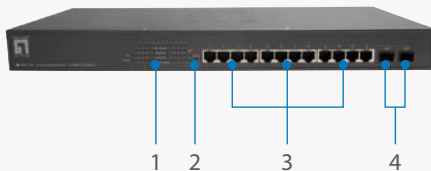### Virtual stacking increasing scalability

This switch allows to use a single IP to manage for a virtual stack up to 16 switches(GSW-0890/1291/2690/2693/2494/2496).

POE Function Embedded

GSW-1291 managed switch is fully compliant with the IEEE 802.3af POE standard. Total PoE output power up to 185w with each port able to transmit 15.4w.

Versatile Features for Management

The GSW-1291 supports a versatile of network management features including: Console, CLI, Telnet, Web, SNMP v1/v3, RMON, TFTP, Port Mirroring and DHCP as well as advanced traffic management options including: 802.1x, bandwidth control and support for IGMP v1/v2 Snooping. GSW-1291 provides seven trunk groups of 4 member ports eliminate network bottlenecks from increased bandwidth. You can partition the network into 256 VLANs using 802.1Q Tagging technology. The Class of Service (CoS) allows you to priorities traffic for time-sensitive applications.

1. LEDs
2. Reset Button
3. 10/100/1000Mbps Rj 45
4. SFP (Mini-GBIC) Slot
5. RS-232
6. AC 100-240V Power

Key Features

- 12-Port 10/100/1000 Mbps copper ports and 2-Port Gigabit/SFP embedded
- Compliant with IEEE 802.3af standards and provides power to all 12 ports
- Supports virtual stack of up to 16 units of GSW-0890 /1291/2690/2693/2494/2496
- Web-based management provides easily configuration via any web browser
- Supports Port-based VLAN and IEEE802.1Q VLAN
- Supports 802.3ad port trunking with LACP
- Supports 802.1d/w (STP/RSTP)
- Supports 802.1p Class of Service with 4-level priority queuing

Relate Products

GSW-2494
24-Port 10/100/1000Mbps + 2-Port SFP L2 SNMP Stacking Switch

GSW-2690
24-Port 10/100Mbps + 2-Port Gigabit/SFP L2 SNMP Stacking Switch

Technical Specifications

Standards Compliance
IEEE 802.3/ IEEE 802.3u
IEEE 802.3ab Gigabit 1000T IEEE 802.3z Gigabit Fiber
IEEE 802.3x Flow Control and Back Pressure
IEEE 802.3af Power Over Ethernet

Network Interface
1000T: 12 x RJ-45
Fiber: 2 x SFP
1x RS-232 DB-9 connector

Protocol
CSMA/CD

Switch Architecture
Store-and-Forward

MAC Address Table
8K entries with Auto learning function

Memory
Packet Buffer: 200Kbytes,

Transfer Rate
14,880 Packets per second for 10Mbps
148,800 Packets per second for 100Mbps
1,488,000 Packets per second for 1000Mbps

Network Cables
10Base-T: 2-pair UTP/STP Cat.3/4/5, Up to 100 m
100Base-TX: 2-pair UTP/STP Cat. 5, Up to 100 m
1000Base-T: 4-pair UTP/STP Cat.5, Up to 100 m
1000Base-SX LC MM: Multi-mode Fiber, Up to 550m
1000Base-LX LC SM: Single-mode Fiber, Up to 10km
1000Base-ZX LC SM: Single-mode Fiber, Up to 70km

Management Agent
SNMP support, MID II (RFC 1213), Bridge MIB (RFC 1493), RMON MIB (RFC 1757)

Management
Telnet management
Web management
Out band local Console Port: DB-9 RS-232 DCE

Spanning Tree Algorithm
IEEE 802.1D Spanning Tree Protocol
IEEE 802.1 s Multiple Spanning Tree Protocol

Virtual Stacking Managemant
Virtual Stacking up to 16 units of GSW-0890/2690/2693/2494/2496/1291

Jambo Frame
9KB

VLAN
Port-based VLAN/802.1Q Tagged VLAN/ 802.1v protocol-based VLAN classification
Up to 256 active VLAN in one switch

QoS
Supports IEEE 802.1p/Port/ MAC/TOS/DiffServ (Ipv4/Ipv6) based QOS Packet
Supports 4 queues per port,
Schedule Schemes: Weighted Round Robin/Fist Come Fist Service/ Strictly Priority

IP Multicast
IGMP Snooping
IP Multicast Packet Filtering

Port Security
Limit number of MAC addresses learned per port static MAC addresses stay in the filtering table

Software Upgrade
TFTP/ Console firmware upgradeable

Other Features
Port trunk connected allowed
Bandwidth Control supported both for Egress/Ingress

Power Supply
Internal power supply: 100~240VAC, 50/60Hz

Power Consumption
No PD device connected: 15 Watts (max)
12 x 15.4W PoE device connected: 185 Watts (max)

LEDs
Per Device: Power, CPU
Per 10/100/1000Mbps: Link/ACT, 10/100/1000Mbps, PoE-PSE ACT, PoE FAIL
Per 1000M SFP: SFP(LINK)

Dimension: (L x W x H)
209mm x 442mm x 44mm

Temperature
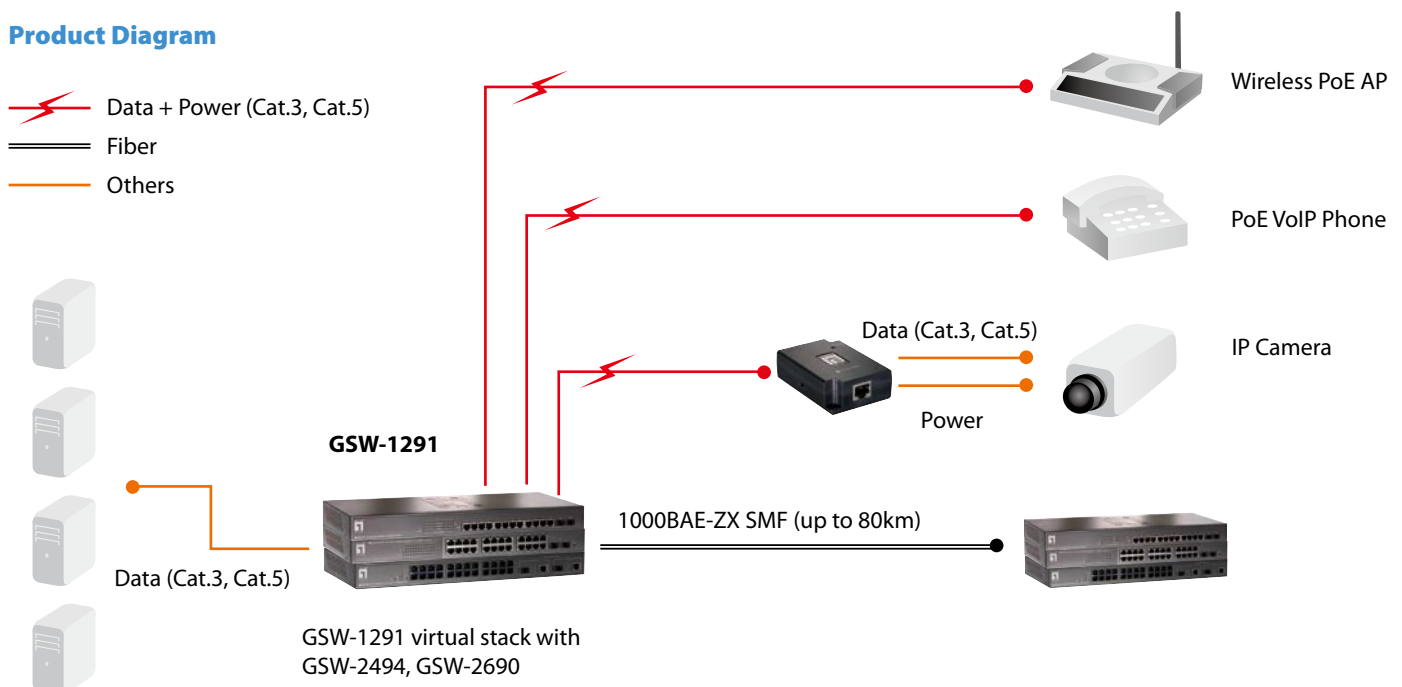Operating: 0°C ~50°C (32°F ~ 113°F)

Humidity
Operating: 5% ~ 90% (Non-condensing)

EMI and Safety
FCC Class A, CE

Product Diagram

Data + Power (Cat.3, Cat.5)
Fiber
Others

Wireless PoE AP

PoE VoIP Phone

Data (Cat.3, Cat.5)

Power

IP Camera

GSW-1291

Data (Cat.3, Cat.5)

1000BAE-ZX SMF (up to 80km)

GSW-1291 virtual stack with GSW-2494, GSW-2690

Order Information	**GSW-1291:** 12-Port 10/100/1000Mbps + 2-Port SFP L2 SNMP PoE Switch
Package Contents	GSW-1291 PoE Layer 2 Network Switch
	Mounting Accessory (for 19" Rack Shelf)
	RS-232 cable
	Power Cord
	User Manual
	CD

Option Accessories

GVT-0300
Mini GBIC SFP transceiver, SX Multi-Mode (550m)

GVT-0301
Mini GBIC SFP transceiver, LX Single-Mode (10km)

GVT-0302
Mini GBIC SFP transceiver, ZX Single-Mode (80km)