

### 8-Port PoE Fast Ethernet TP + 2-Port Gigabit Combo Layer 2 SNMP Switch

#### Product Overview

The LevelOne GSW-0891 is a high-performance managed Layer 2 Network Switch that offers functionality with flexible network connectivity features. It features PoE capability and is an ideal solution for workgroups and departments that need advanced Layer 2 managed switching and advanced network security.

#### Power over Ethernet Enabled

This Layer 2 Managed Switch is IEEE 802.3af Power over Ethernet compliant offer flexible deployment and connectivity to network devices such as network cameras, VoIP phones, access points and other PoE enabled devices.

With automatic load sensing and interactive power transmission and port monitoring, the GSW-0891 automatically senses and adjusts power output requirement to each connected device before providing power. Total switch power output is 123.3W with each port able to transmit 15.4W and featuring overload and short-circuit protection.

#### Advanced Layer 2 Switching Capability

The GSW-0891 network switch offers 5.6Gbps non-blocking switching architecture for wire-speed transmission on its eight PoE enabled 10/100Mbps Fast Ethernet ports and two shared dual fiber mini-GBIC Gigabit or copper Gigabit Ethernet ports.

With IEEE 802.1Q VLAN tagging capability, the GSW-0891 offers networks with 256 private virtual LAN groups. Each VLAN can be isolated to protect privacy or provide network guests with restrictive access. When different network devices, such as access points, network cameras or VoIP phones are deployed on the network, administrators can set each group of devices to a separate network to enhance security and efficiency.

Other advanced enterprise features include IEEE 802.1p QoS/CoS, 802.1x, 802.1d/w spanning tree, IGMP snooping, 802.3ad Link Aggregation, SNMP versions 1/2c/v3 and 802.1X port-based Network Access Control.



**GSW-0891**

### Key Features

- 8-Port Managed Ethernet Switch with shared fiber or copper ports
- Dual Gigabit uplinks provide increased bandwidth and redundancy
- 15.4W per port Power over Ethernet enabled for flexible network deployment
- 5.6Gbps, non-blocking, store-and-forward switching architecture
- Includes 802.1x Port Authentication and MAC address filtering for network security
- Features X-Ring network self-recovery
- Advanced Layer 2 SNMP v1, v2c, v3 management features
- 802.1Q based VLAN offering 256 private network groups
- Advanced QoS enables optimized network application data transmission
- Support 802.1ab Link Layer Discovery Protocol (LLDP)
- Supports 802.3ad Link Aggregation
- Compliant with IEEE 802.1p QoS
- Provides support for Cisco Legacy PD

Digital Data Communications GmbH.

Zeche 1 • 40880 St. Augustin • Germany

All mentioned brand names are registered trademarks and property of their owners.

Technical specifications are subject to change without notice.

© 2008 All Rights Reserved

[www.level1.com](http://www.level1.com)

## Technical Specification

### Network Interface

#### Standard Compliance

IEEE 802.3 10Base-T Ethernet  
IEEE 802.3u 100Base-TX Ethernet  
IEEE 802.3ab 1000Base-T Ethernet  
IEEE 802.3z 1000Base-X Fiber  
IEEE 802.3x Flow control and Back Pressure  
IEEE 802.3ad Port Trunk with LACP  
IEEE 802.3af Power over Ethernet  
IEEE 802.1d Spanning Tree Protocol  
IEEE 802.1w Rapid Spanning Tree Protocol  
IEEE 802.1p Quality of Service  
IEEE 802.1Q VLAN Tagging  
IEEE 802.1x User Authentication (Radius)  
IEEE802.1ab LLDP  
Cisco Legacy PD

#### Network Connectivity

8x RJ-45 Fast Ethernet Ports  
- Support auto MDI/MDI-X  
- Support auto-negotiation  
2x RJ-45 + 2x 100/1000 SFP socket for Mini-GBIC  
1x Console Port (D-Sub 9-pin Female (DCE))

#### PoE

Ports 1 ~ 8 support IEEE 802.3af End-point,  
Alternative B mode  
123.2W total (15.4W per port)

#### Protocol

CSMA/CD

#### Switch Architecture

Back-plane: 5.6Gbps  
Packet throughput: 8.3Mpps @64bytes

#### Packet Buffer

1Mbits

#### Mac Address

8K MAC address table

### Physical Specifications

#### Power Supply

100 ~ 240V AC, 200W

#### Redundant Power Supply

48V DC

#### Power Consumption

135 Watts

#### Operating Temperature and Humidity

0°C to 45°C  
5% to 95% (Non-condensing)

#### Storage Temperature

-40°C to 70°C

#### Switch Cooling

1x back fan with fail detection

#### LED

Power  
Link/Activity

#### Dimensions

270mm (W) x 210mm (D) x 44mm (H)/ 11"  
Support 11" wall mount and 19" rack mount

#### Certification

EMI: FCC Class A, CE  
Safety: UL, cUL, CE/EN60950-1

### Package Contents

GSW-0891 PoE Layer 2 Network Switch  
Four rubber pads  
RS-232 cable  
Power Cord  
User Manual  
CD

## Software and Management Features

### Management

SNMP v1 v2c, v3/ Web/Telnet/CLI/Menu Driven\*\*

### SNMP MIB

RFC 1215 Trap, RFC1213 MIBII, RFC 1157 SNMP MIB, RFC 1493 Bridge MIB, RFC 2674 VLAN MIB, RFC 1643 , RFC 1757, RSTP MIB, Private MIB, PoE MIB

### VLAN

IEEE 802.1Q Port Based VLAN  
256 VLAN ID entries  
Support up to 4K, for 4096 VLAN ID entries  
256 GVRP Groups  
Double Tag VLAN (Q in Q)

### Port Trunk with LACP

4 Trunk groups/Maximum 4 trunk members

### QoS

Support IEEE 802.1p Class of Service  
Provides 4 priority queues per port  
Port base, Tag base and Type of Service Priority

### Port Mirror

Support 3 mirroring types: RX, TX and Both packets

### Security

Port Security: MAC address filtering  
IP Security: IP address security management  
Login Security: IEEE 802.1X Radius

### Spanning Tree

Support IEEE802.1d Spanning Tree  
Support IEEE802.1w Rapid Spanning Tree

### X-ring

Support X-ring, Dual Homing, and Couple Ring  
Provide redundant backup feature and the recovery time below 300ms

### LLDP

Support LLDP to allow switch to advise its identification and capability on the LAN  
below 300ms

### IGMP

Support IGMP snooping v1,v2  
256 multicast groups and IGMP query

### IP Security

Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder

### Login Security

Support IEEE802.1X Authentication/RADIUS

### Flow Control

Support Flow Control for Full-duplex and Back Pressure for Half-duplex

### System Log

Support System log record and remote system log server

### SMTP

Support SMTP Server and 6 e-mail accounts for receiving event alert

### Bandwidth Control

Support ingress packet filter and egress packet limit  
Support Broadcast/Multicast/Unknown Uni-cast packet filter control

Egress packet rate limit: 100K~250Mbps  
Ingress packet filter rate: 100k to 250Mbps

### DHCP

Provide DHCP Client/ DHCP Server/ IP Relay functions

### DNS

Provide DNS client feature and support Primary and Secondary DNS server.

### SNTP

Support SNTP to synchronize system clock in Internet

### Firmware Update

Support TFTP firmware update, TFTP backup and restore.

### Configuration upload and download

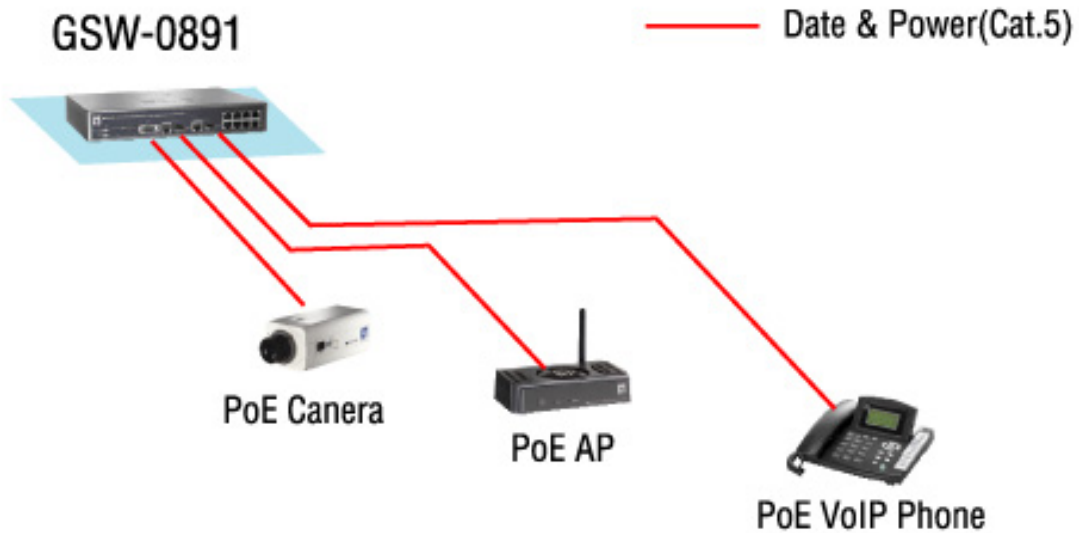
Support text format configuration file for system quick installation

### SNMP Trap

SNMP Trap station up to 3

- Device cold start
- Authentication failure
- X-ring topology changed
- Port Link up/Link down
- Power Status
- AC disconnect trap-PoE port event
- DC disconnect trap-PoE port Event
- Disconnect PD off-PoE port event
- Over loading trap-PoE port event
- Short circuit trap-PoE port event
- Over Temp protection trap -PoE port event.
- Power management -PoE port off event

### Product Diagram



### Order Information

**GSW-0891:** 8-Port PoE Fast Ethernet TP + 2-Port Gigabit Combo Layer 2 SNMP Switch

#### Package Contents

- GSW-0891 PoE Layer 2 Network Switch
- Four rubber pads
- RS-232 cable
- Power Cord
- User Manual
- CD

**Digital Data Communications GmbH.**

Zeche-Norm St. 25, 44319, Dortmund, Germany

All mentioned brand names are registered trademarks and property of their owners.

Technical specifications are subject to change without notice.

© 2008 All Rights Reserved

[www.level1.com](http://www.level1.com)