





**Design for harsh industrial environments
 stable and reliable**

- ✓ Industrial Level 4
- ✓ IP40 protection
- ✓ CE,FCC certificated
- ✓ Anti-EMI

10/100/1000M Managed Industrial PoE Switch

LV-GYP208

Introduction	Image
<p>This managed PoE Industrial Ethernet Switch is designed for harsh industrial application, with reliable and simple operation against vibration and shock and other disturbances. It is classified as power source equipment (PSE) and provides up to 30W of power per PoE ports, eliminates the need of additional wiring.</p> <p>With the wide temperature range for operation, this switch meets the requirements of reliability and practicality of network in different kinds of industrial environments.</p>	 

Features & Benefits
❖ 8 IEEE 802.3af/at PoE compliance 10/100Base-T(X) ports and 2 1000Base-X SFP ports
❖ “OP-Ring” (recovery time<20ms), RSTP/STP, and MSTP for network redundancy
❖ Configurable by CLI for advanced PoE management function
❖ Port-based VLAN, IEEE802.1Q VLAN and GVRP to ease network planning
❖ DHCP Option 82 for IP address assignment with different policies
❖ IGMP snooping and GMRP for filtering multicast traffic
❖ Ethernet/IP and Modbus/TCP industrial Ethernet protocol supported
❖ Bandwidth management prevents unpredictable network status
❖ SNMPv3, iieee802.1X, HTTPS and SSH to enhance network security



**Design for harsh industrial environments
stable and reliable**

- ✓ Industrial Level 4
- ✓ IP40 protection
- ✓ CE,FCC certificated
- ✓ Anti-EMI



❖ RMON for efficient network monitoring and proactive capability
❖ Lock port allows access by only authorized MAC addresses
❖ Port mirroring for online debugging
❖ Automatic warning by exception through email, relay output
❖ QoS and ToS/DiffServ for flow control and management
❖ IEEE 802.3ad, LACP for optimum bandwidth utilization

Physical Characteristics
❖ Housing: Aluminum Alloy material with IP40 Protection
❖ Dimension: 138mm(L) X 112mm(W) X 60mm(H)
❖ Weight: 710g
❖ Installation: Din-Rail mounting, Wall mounting

Technology
Protocol: OP-Ring, IGMPv1/v2, GVRP, SNMPv1/ v2C/ v3, DHCP Client, TFTP, SMTP, RMON, HTTP, HTTPS, Telnet, Syslog, SSH, SNMP Inform, LLDP, SNTP Service/ Client, PVLAN.
MIB: MIB-II, Ethernet-Like MIB, P-BRIDGE MIB, Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1,2,3,9
Flow Control: IEEE 802.3x flow control, back pressure flow control



Design for harsh industrial environments stable and reliable

- ✓ Industrial Level 4
- ✓ IP40 protection
- ✓ CE,FCC certificated
- ✓ Anti-EMI



Switch Properties

Priority Queues: 4

Maximum No of Available VLANs: 256

VLAN ID: 1-4094

IGMP Groups: 256

MAC Table Size: 8K

Packet Buffer Size: 1Mbit

Interfaces

SFP Port: 1000Base-X, SFP interface

RJ45 Port: 10/100Base-T(X) auto negotiation

802.3af/at PoE Port: Up to 30W at 48-50V DC power output on each PoE port, 600mA

Console Port: rs-232(RJ45 connector)

Alarm Contact: 1 replay outputs, supports IP/MAC conflict

Power

Input Voltage: 48V DC Redundant dual inputs

Input Current: <0.5A @48VDC

Overload Current Protection: Present

Reverse Polarity Protection: Present

Redundant Protection: Present

Connection: 1 removable 6-pin terminal blocks



**Design for harsh industrial environments
stable and reliable**

- ✓ Industrial Level 4
- ✓ IP40 protection
- ✓ CE,FCC certificated
- ✓ Anti-EMI



Environmental Limits

❖ Operating Temperature: -40°Cto +85°C
❖ Storage Temperature: --40°Cto +85°C
❖ Ambient Relative Humidity: 5% to 95% (non-condensing)

Standards

<ul style="list-style-type: none"> ❖ IEEE 802.3af/at PoE ❖ IEEE 802.3 for 10BaseT ❖ IEEE 802.3u for 100BaseT(X) ❖ IEEE 802.3x for Flow Control ❖ IEEE 802.1D-2004 for Spanning Tree Protocol ❖ IEEE 802.1w for Rapid Spanning Tree Protocol ❖ IEEE 802.1s for Multiple Spanning Tree Protocol ❖ IEEE 802.1Q for VLAN Tagging ❖ IEEE 802.1p for Class of Service ❖ IEEE 802.1X for Authentication ❖ IEEE 802.3ad for Port Trunk with LACP
<ul style="list-style-type: none"> ❖ EMS: ❖ EN61000-4-2 (ESD), Level 3 ❖ EN61000-4-3 (RS), Level 3 ❖ EN61000-4-4 (EFT), Level 3 ❖ EN61000-4-5 (Surge), Level 3 ❖ EN61000-4-6 (CS), Level 3 ❖ EN61000-4-16(Common-mode Conduction) , Level 3
❖ Shock: IEC 60068-2-27
❖ Free Fall: IEC 60068-2-32
❖ Vibration: IEC 60068-2-6
❖ EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A
❖ Industry: IEC61000-6-2



Design for harsh industrial environments stable and reliable

- ✓ Industrial Level 4
- ✓ IP40 protection
- ✓ CE,FCC certificated
- ✓ Anti-EMI



❖ Rail: EN50155, EN50121-4

❖ Traffic: NEMA TS-2

Warranty

5 years

Models Available

Model No	Description
LV-GYP208	2*1000M SFP Slot and 8*10/100M PoE Port, 1 Console Port