





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

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



**10/100/1000M Managed Industrial Ethernet Switches**

**LV-GY416**

Introduction	Image
<p>This managed industrial Ethernet switch is designed to match the critical industrial standards. With reliable and simple operation against vibration and shock, and wide operation temperature range, it could match a variety of harsh environments.</p> <p>The switch complies with CE, FCC and RoHS standards, and passed the 100% burning test to ensure that it will fulfill the needs of industrial applications. It is a good choice for an economical solution for industrial Ethernet connections.</p>	 

Features & Benefits
4 1000Base-X SFP ports, 16 10/100Base-T(X) ports
“OP-Ring” (recovery time<20ms), w / ITU G.8032 Ring, RSTP/STP, and MSTP for network redundancy
SNMPv3, IEEE802.1X, HTTPS and SSH to enhance network security
Port-based VLAN, IEEE802.1Q VLAN and GVRP to ease network planning
DHCP Option 82 for IP address assignment with different policies
Ethernet/IP and Modbus/TCP industrial Ethernet protocol supported
Bandwidth management prevents unpredictable network status
RMON for efficient network monitoring and proactive capability
Lock port allows access by only authorized MAC addresses



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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
Configurable by CLI for advanced management function
-40°C to +85°C operating temperature range

<b>Physical Characteristics</b>
Housing: Aluminum Alloy material with IP40 Protection
Dimension: 138mm(L) X 112mm(W) X 60mm(H)
Weight: 900g
Installation: Din-Rail mounting, Wall mounting

<b>Switch Properties</b>
Priority Queues: 4
Maximum No of Available VLANs: 256
VLAN ID: 1-4094
IGMP Groups: 256
MAC Table Size: 8K
Packet Buffer Size: 1M bit

<b>Interfaces</b>
SFP Port: 1000Base-X interface
RJ45 Port: 10/100Base-T(X) auto negotiation
Console Port: RS-232(RJ45 connector)



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

<b>Power</b>
Input Voltage: 24V DC(18-36VDC) Redundant dual inputs
Input Current: <0.5A @24VDC
Overload Current Protection: Present
Reverse Polarity Protection: Present
Redundant Protection: Present
Connection: 1 removable 6-pin terminal blocks

<b>Environmental Limits</b>
Operating Temperature: -40°C to +85°C
Storage Temperature: -40°C to +85°C
Ambient Relative Humidity: 5% to 95% (non-condensing)

<b>Technology</b>
<b>Protocol:</b> 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
<b>MIB:</b> MIB-II, Ethernet-Like MIB, P-BRIDGE MIB, Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1,2,3,9
<b>Flow Control:</b> IEEE 802.3x flow control, back pressure flow control

<b>Standards</b>
IEEE 802.3 for 10BaseT
IEEE 802.3u for 100BaseT(X)
IEEE 802.3x for Flow Control



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IEEE 802.1D-2004 for Spanning Tree Protocol
IEEE 802.1w for Rapid 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
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
Rail: EN50155, EN50121-4
Traffic: NEMA TS-2

Warranty
5 years

Models Available	
Model No	Description
LV-GY416	4*1000M SFP Slot and 16*10/100M RJ45 Port, 1 Console Port