





**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-GY428**

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, 2 100Base-FX ports, 8 10/100Base-T(X) ports
"OP-Ring" (recovery time<20ms), w / ITU G.8032 Ring, RSTP/STP, and MSTP for network redundancy
SNMPv3, iieee802.1X, 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



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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
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



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RJ45 Port: 10/100Base-T(X) auto negotiation
Console Port: RS-232(RJ45 connector)
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



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Standards
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 802.1Q 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



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<b>Models Available</b>	
<b>Model No</b>	<b>Description</b>
<b>Dual Fiber</b>	
LV-GY428-MD	Multi-mode; 2Km; LC/FC/SC/ST interfaces optional
LV-GY428-SD	Single-mode; 20Km; LC/FC/SC/ST interfaces optional
LV-GY428-SD40	Single-mode; 40Km; LC/FC/SC/ST interfaces optional
LV-GY428-SD60	Single-mode; 60Km; LC/FC/SC/ST interfaces optional
LV-GY428-SD80	Single-mode; 80Km; LC/FC/SC/ST interfaces optional
<b>Single Fiber</b>	
LV-GY428MS	Multi-mode; 2Km; LC/FC/SC/ST interfaces optional
LV-GY428-SS	Single-mode; 20Km; LC/FC/SC/ST interfaces optional
LV-GY428-SS40	Single-mode; 40Km; LC/FC/SC/ST interfaces optional
LV-GY428-SS60	Single-mode; 60Km; LC/FC/SC/ST interfaces optional
LV-GY428-SS80	Single-mode; 80Km; LC/FC/SC/ST interfaces optional