LINK VUE

ASSEMBLED & QUALITY CONTROL IN INDIA

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About Linkvue System – Proudly Made in India

About Linkvue Systems – Engineered for Performance, Assembled in India

Linkvue Systems, established in 2015, is a leading Indian provider of industrial networking and communication products, proudly supporting the Make in India initiative. Our solutions are designed with precision, assembled in India, and built to meet the demanding needs of industrial environments across the country and beyond.

We specialize in a comprehensive range of industrial-grade networking equipment, including unmanaged Ethernet industrial switches, media converters, unmanaged PoE switches, managed switches, and industrial PoE solutions. Every Linkvue product is crafted to deliver exceptional reliability, performance, and durability — ensuring seamless connectivity for critical infrastructure and industrial applications.

At Linkvue, our commitment goes beyond selling hardware. We provide dependable, cost-effective solutions developed through local engineering expertise and advanced technology integration. Each product is optimized for Indian conditions, offering robust design, long operational life, and consistent performance in harsh environments.

Driven by our mission to empower India's connectivity and industrial automation, we continue to expand our product portfolio and strengthen our service network. With a focus on quality, innovation, and local manufacturing, Linkvue stands as a proud example of India's growing strength in high-performance networking technology — Assembled in India, Made for the World.

PRODUCT CATALOGUE

Unmanaged Industrial Ethernet Switch & Media Converter

- IP40 Dust Ingress Protection
- 12-58VDC Wide Range Input
- -40 to 75℃ Wide Temperature

CONTENTS

Unmanaged Industrial Media Converter:

Unmanaged Industrial Ethernet Switch:

LV-IMC0101F Series

1*10/100Base-TX to 1*100Base-FX Compact Size Industrial Media

Features:

- 1*10/100Base-TX RJ45 port.
- 1*100Base-FX SC/SFP fiber port (FC or ST optional).
- Supports 12-58VDC input, redundant power supply with reverse polarity and over-voltage protection.
- DIP switch functions: 1). Link Fault Pass-through (LFP), 2). Flow control, 3). Broadcast storm restraint, 4). 10K bytes jumbo frame.
- Watchdog supported, enabling automatic reboot in

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case of device freeze.

➢IP40-rated fan-less aluminum alloy housing with DIN-Rail hardware design.

➢Operating temperature range: -40℃ to 75℃.

Overview:

The Linkvue LV-IMC0101F is an unmanaged industrial-grade media converter with 1-port 10/100Base-TX RJ45 and 1-port 100Base-FX SC/SFP (FC or ST optional) fiber optic interface. It boasts features like LFP, flow control, broadcast storm restraint, and 10K-byte jumbo frame support, all configurable via the DIP switch on the top panel.

The LV-IMC0101F series offers a cost-effective and user-friendly solution, delivering vital industrial Ethernet networking functions. This includes a wide power input range of 12-58VDC, redundant power design with safeguards against polarity reversal and over-voltage, a sturdy fan-less IP40 compact housing suitable for DIN-Rail installation. It operates effectively in a wide temperature range from -40℃ to 75℃ and excels in high-level EMI/EMC performance. These converters are designed for challenging environments such as heavy industrial factories, transportation, oil & gas facilities, chemicals, IP surveillance, and process automation, these converters exceed standard commercial product specifications.

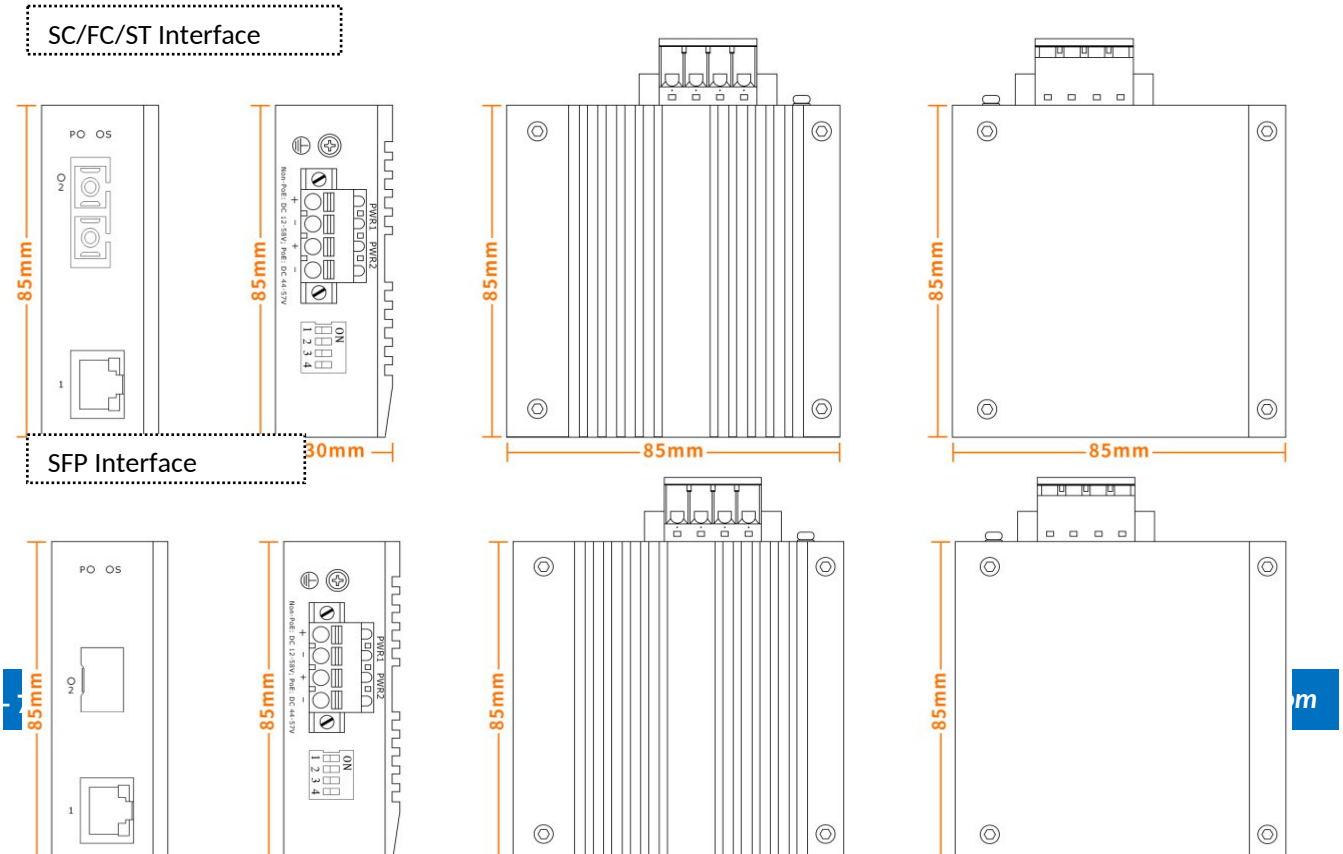
Technical Specification:

Interface	Fiber port	Ethernet (RJ45) port
	1	1
	1*10/100Base-TX RJ45 port 1*100Base-FX SC/SFP fiber port (FC or ST optional)	
Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3x Full-Duplex Flow Control IEEE 802.3az Energy Efficient Ethernet	
DIP Switch	1). Link Fault Pass-through (LFP) 2). Flow control 3). Broadcast storm restraint 4). 10K bytes jumbo frame	
LED Indicator	P (Power Indicator) Green	Off: Device power is off or a failure has occurred

<table>
<tr><td rowspan="8"></td><td></td><td colspan="2">On: Device power is normal</td></tr>
<tr><td rowspan="2">S (System Indicator) Red</td><td colspan="2">Off: Chip operation is normal</td></tr>
<tr><td colspan="2">On: Chip read/write operations are abnormal</td></tr>
<tr><td rowspan="4">1 (RJ45 Port)</td><td>Green Indicator</td><td>Yellow Indicator</td></tr>
<tr><td>Off: Port link is inactive</td><td>Off: Port speed is 10M</td></tr>
<tr><td>On: Port link is active</td><td rowspan="2">On: Port speed is 100M</td></tr>
<tr><td>Blinking: Data transmission on TX/RX</td></tr>
<tr><td rowspan="3">2 (Fiber Port) Green</td><td colspan="2">Off: Port link is inactive</td></tr>
<tr><td colspan="2">On: Port link is active</td></tr>
<tr><td colspan="2">Blinking: Data transmission on TX/RX</td></tr>
<tr><td colspan="4">Power Parameter</td></tr>
<tr><td>Input voltage</td><td colspan="3">12-58VDC (redundant power input)</td></tr>
<tr><td>Input current</td><td colspan="3">0.2A Max</td></tr>
<tr><td>Total power consumption</td><td colspan="3">Full load ≤2W</td></tr>
<tr><td>Connector</td><td colspan="3">Removable 4-pin terminal block</td></tr>
<tr><td>Reverse polarity protection</td><td colspan="3">Supported</td></tr>
<tr><td>Over-voltage protection</td><td colspan="3">Supported</td></tr>
<tr><td colspan="4">Switching Feature</td></tr>
<tr><td>Switching capacity</td><td colspan="3">1.0 Gbps</td></tr>
<tr><td>Packet forwarding rate</td><td colspan="3">0.744 Mpps</td></tr>
<tr><td>MAC address table</td><td colspan="3">2K</td></tr>
<tr><td>VLAN</td><td colspan="3">2K</td></tr>
<tr><td>Buffer</td><td colspan="3">1M</td></tr>
<tr><td>Forwarding delay</td><td colspan="3"><10us</td></tr>
<tr><td>Jumbo frame</td><td colspan="3">10K bytes</td></tr>
<tr><td>MDX/MIDX</td><td colspan="3">Supported</td></tr>
<tr><td>Watchdog</td><td colspan="3">Supported</td></tr>
<tr><td colspan="4">Network Topology</td></tr>
<tr><td>Star topology</td><td colspan="3">Supported</td></tr>
</table>

Bus topology	Supported
Tree topology	Supported
Mechanical Structure	
IP grade	IP40
Installation method	DIN-Rail
Dimension (W*D*H)	30*85*85 mm
Weight	0.35 kg
Operating Environment	Operating temperature: -40℃ to 75℃ Storage temperature: -40℃ to 85℃ Relative humidity: 5% to 95% (non-condensing)
Industrial Standard	Surge protection of power: IEC 61000-4-5 Level 3 (4kV/2kV, 8/20us) Surge protection of Ethernet port: IEC 61000-4-5 Level 3 (4kV/2kV, 10/700us) DIP: IEC 61000-4-11 Level 3 (10V) ESD: IEC 61000-4-2 Level 4 (8kV/15kV) Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Certification	CE, FCC, RoHS
Warranty	5 years

Structure Diagram:



LV-IMC0102F Series

2*10/100Base-TX to 1*100Base-FX Compact Size Industrial Media Converter

Order Information:

Model No.	Description
LV-IMC0101F-SFP	Industrial media converter, 1*10/100Base-TX RJ45 port and 1*100Base-X SFP slot, DIN-Rail, 12-58VDC, -40°C to 75°C operating temperature (The transmission distance of the fiber port depends on the SFP transceiver)
LV-IMC0101F-SC	Industrial media converter, 1*10/100Base-TX RJ45 port and 1*100Base-FX SC port, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 2Km, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40°C to 75°C operating temperature
LV-IMC0101F-FC	Industrial media converter, 1*10/100Base-TX RJ45 port and 1*100Base-FX FC port, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 2Km, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40°C to 75°C operating temperature
LV-IMC0101F-ST	Industrial media converter, 1*10/100Base-TX RJ45 port and 1*100Base-FX ST port, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 2Km, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40°C to 75°C operating temperature

Features:

- 2*10/100Base-TX RJ45 ports.
- 1*100Base-FX SC/SFP fiber port (FC or ST optional).
- Supports 12-58VDC input, redundant power supply with reverse polarity and over-voltage protection.
- DIP switch functions: 1). Link Fault Pass-through (LFP), 2). Flow control, 3). Broadcast storm restraint, 4). 10K bytes jumbo frame.
- Watchdog supported, enabling automatic reboot in case of device freeze.
- IP40-rated fan-less aluminum alloy housing with DIN-

Rail hardware design.

➢Operating temperature range: -40℃ to 75℃.

Overview:

The Linkvue LV-IMC0102F is an unmanaged industrial-grade media converter with 2-port 10/100Base-TX RJ45 and 1-port 100Base-FX SC/SFP (FC or ST optional) fiber optic interface. It boasts features like LFP, flow control, broadcast storm restraint, and 10K-byte jumbo frame support, all configurable via the DIP switch on the top panel.

The LV-IMC0102F series offers a cost-effective and user-friendly solution, delivering vital industrial Ethernet networking functions. This includes a wide power input range of 12-58VDC, redundant power design with safeguards against polarity reversal and over-voltage, a sturdy fan-less IP40 compact housing suitable for DIN-Rail installation. It operates effectively in a wide temperature range from -40℃ to 75℃ and excels in high-level EMI/EMC performance. These converters are designed for challenging environments such as heavy industrial factories, transportation, oil & gas facilities, chemicals, IP surveillance, and process automation, these converters exceed standard commercial product specifications.

Technical Specification:

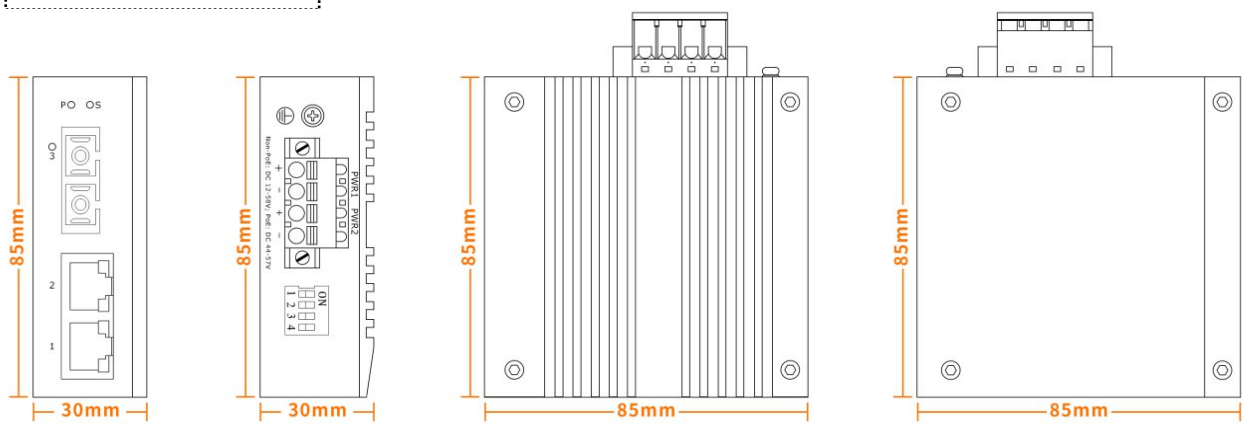
<table>
<tr><td rowspan="3">Interface</td><td colspan="2">Fiber port</td><td>Ethernet (RJ45) port</td></tr>
<tr><td colspan="2">1</td><td>2</td></tr>
<tr><td colspan="3">2*10/100Base-TX RJ45 ports
1*100Base-FX SC/SFP fiber port (FC or ST optional)</td></tr>
<tr><td>Standard</td><td colspan="3">IEEE 802.3 10Base-T Ethernet
IEEE 802.3u Fast Ethernet
IEEE 802.3x Full-Duplex Flow Control
IEEE 802.3az Energy Efficient Ethernet</td></tr>
<tr><td>DIP Switch</td><td colspan="3">1). Link Fault Pass-through (LFP)
2). Flow control
3). Broadcast storm restraint
4). 10K bytes jumbo frame</td></tr>
<tr><td rowspan="3">LED Indicator</td><td rowspan="2">P (Power Indicator)
Green</td><td colspan="2">Off: Device power is off or a failure has occurred</td></tr>
<tr><td colspan="2">On: Device power is normal</td></tr>
<tr><td>S (System Indicator)</td><td colspan="2">Off: Chip operation is normal</td></tr>
</table>

	Red	On: Chip read/write operations are abnormal	
	1-2 (RJ45 Port)	Green Indicator	Yellow Indicator
		Off: Port link is inactive	Off: Port speed is 10M
		On: Port link is active	On: Port speed is 100M
		Blinking: Data transmission on TX/RX	
	3 (Fiber Port) Green	Off: Port link is inactive	
		On: Port link is active	
		Blinking: Data transmission on TX/RX	
Power Parameter			
Input voltage	12-58VDC (redundant power input)		
Input current	0.2A Max		
Total power consumption	Full load ≤2.5W		
Connector	Removable 4-pin terminal block		
Reverse polarity protection	Supported		
Over-voltage protection	Supported		
Switching Feature			
Switching capacity	1.0 Gbps		
Packet forwarding rate	0.744 Mpps		
MAC address table	2K		
VLAN	2K		
Buffer	1M		
Forwarding delay	<10us		
Jumbo frame	10K bytes		
MDX/MIDX	Supported		
Watchdog	Supported		
Network Topology			
Star topology	Supported		
Bus topology	Supported		
Tree topology	Supported		

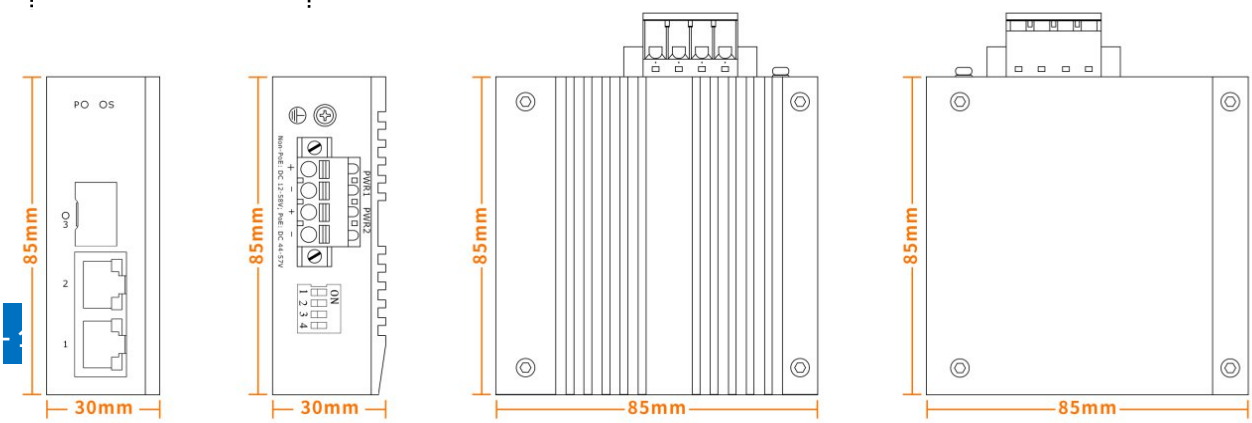
Mechanical Structure	
IP grade	IP40
Installation method	DIN-Rail
Dimension (W*D*H)	30*85*85 mm
Weight	0.35 kg
Operating Environment	Operating temperature: -40℃ to 75℃ Storage temperature: -40℃ to 85℃ Relative humidity: 5% to 95% (non-condensing)
Industrial Standard	Surge protection of power: IEC 61000-4-5 Level 3 (4kV/2kV, 8/20us) Surge protection of Ethernet port: IEC 61000-4-5 Level 3 (4kV/2kV, 10/700us) DIP: IEC 61000-4-11 Level 3 (10V) ESD: IEC 61000-4-2 Level 4 (8kV/15kV) Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Certification	CE, FCC, RoHS
Warranty	5 years

Structure Diagram:

SC/FC/ST Interface



SFP Interface



Order Information:

Model No.	Description
LV-IMC0102F-SFP	Industrial media conver... Rail, 12-58VDC, -40°C to ... port depends on the SFP
LV-IMC0102F-SC	Industrial media converter, 2*10/100Base-TX RJ45 ports and 1*100Base-FX SC ports, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 2Km, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40°C to 75°C operating temperature
LV-IMC0102F-FC	Industrial media converter, 2*10/100Base-TX RJ45 ports and 1*100Base-FX FC ports, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 2Km, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40°C to 75°C operating temperature
LV-IMC0102F-ST	Industrial media converter, 2*10/100Base-TX RJ45 ports and 1*100Base-FX ST ports, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 2Km, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40°C to 75°C operating temperature

LV-IMC0202F Series

2*10/100Base-TX to 2*100Base-X Compact Size Industrial Media

CE FCC RoHS compliant

Features:

- 2*10/100Base-TX RJ45 ports.
- 2*100Base-X SFP slots.
- Supports 12-58VDC input, redundant power supply with reverse polarity and over-voltage protection.
- DIP switch functions: 1). Link Fault Pass-through (LFP), 2). Flow control, 3). Broadcast storm restraint, 4). 10K bytes jumbo frame.
- Watchdog supported, enabling automatic reboot in case of device freeze.
- IP40-rated fan-less aluminum alloy housing with DIN-Rail hardware design.
- Operating temperature range: -40℃ to 75℃.

Overview:

The Linkvue LV-IMC0202F is an unmanaged industrial-grade media converter with 2-port 10/100Base-TX RJ45 and 2-port 100Base-X SFP slot. It boasts features like LFP, flow control, broadcast storm restraint, and 10K-byte jumbo frame support, all configurable via the DIP switch on the top panel.

The LV-IMC0202F series offers a cost-effective and user-friendly solution, delivering vital industrial Ethernet networking functions. This includes a wide power input range of 12-58VDC, redundant power design with safeguards against polarity reversal and over-voltage, a sturdy fan-less IP40 compact housing suitable for DIN-Rail installation. It operates effectively in a wide temperature range from -40℃ to 75℃ and excels in high-level EMI/EMC performance. These converters are designed for challenging environments such as heavy industrial factories, transportation, oil & gas facilities, chemicals, IP surveillance, and process automation, these converters exceed standard commercial product specifications.

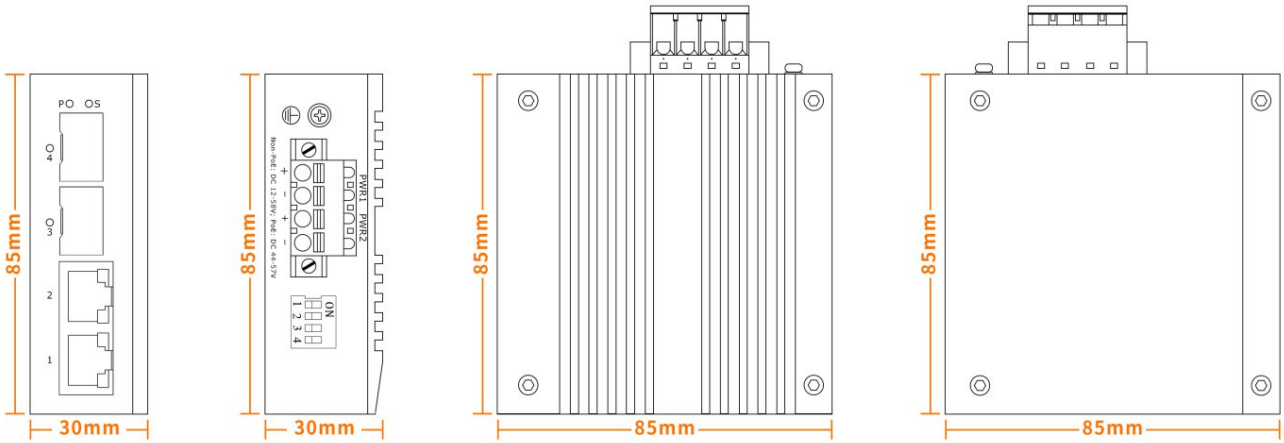
Technical Specification:

<table>
<tr><td rowspan="3">Interface</td><td colspan="2">Fiber port</td><td>Ethernet (RJ45) port</td></tr>
<tr><td colspan="2">2</td><td>2</td></tr>
<tr><td colspan="3">2*10/100Base-TX RJ45 ports
2*100Base-X SFP slots</td></tr>
<tr><td>Standard</td><td colspan="3">IEEE 802.3 10Base-T Ethernet
IEEE 802.3u Fast Ethernet
IEEE 802.3x Full-Duplex Flow Control
IEEE 802.3az Energy Efficient Ethernet</td></tr>
<tr><td>DIP Switch</td><td colspan="3">1). Link Fault Pass-through (LFP)
2). Flow control
3). Broadcast storm restraint
4). 10K bytes jumbo frame</td></tr>
<tr><td rowspan="5">LED Indicator</td><td rowspan="2">P (Power Indicator)
Green</td><td colspan="2">Off: Device power is off or a failure has occurred</td></tr>
<tr><td colspan="2">On: Device power is normal</td></tr>
<tr><td rowspan="2">S (System Indicator)
Red</td><td colspan="2">Off: Chip operation is normal</td></tr>
<tr><td colspan="2">On: Chip read/write operations are abnormal</td></tr>
<tr><td>1-2 (RJ45 Port)</td><td>Green Indicator</td><td>Yellow Indicator</td></tr>
</table>

		Off: Port link is inactive	Off: Port speed is 10M
		On: Port link is active	On: Port speed is 100M
		Blinking: Data transmission on TX/RX	
	3-4 (Fiber Port) Green	Off: Port link is inactive	
		On: Port link is active	
		Blinking: Data transmission on TX/RX	
Power Parameter			
Input voltage	12-58VDC (redundant power input)		
Input current	0.3A Max		
Total power consumption	Full load ≤2.5W		
Connector	Removable 4-pin terminal block		
Reverse polarity protection	Supported		
Over-voltage protection	Supported		
Switching Feature			
Switching capacity	1.0 Gbps		
Packet forwarding rate	0.744 Mpps		
MAC address table	2K		
VLAN	2K		
Buffer	1M		
Forwarding delay	<10us		
Jumbo frame	10K bytes		
MDX/MIDX	Supported		
Watchdog	Supported		
Network Topology			
Star topology	Supported		
Bus topology	Supported		
Tree topology	Supported		
Mechanical Structure			
IP grade	IP40		

Installation method	DIN-Rail
Dimension (W*D*H)	30*85*85 mm
Weight	0.35 kg
Operating Environment	Operating temperature: -40℃ to 75℃ Storage temperature: -40℃ to 85℃ Relative humidity: 5% to 95% (non-condensing)
Industrial Standard	Surge protection of power: IEC 61000-4-5 Level 3 (4kV/2kV, 8/20us) Surge protection of Ethernet port: IEC 61000-4-5 Level 3 (4kV/2kV, 10/700us) DIP: IEC 61000-4-11 Level 3 (10V) ESD: IEC 61000-4-2 Level 4 (8kV/15kV) Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Certification	CE, FCC, RoHS
Warranty	5 years

Structure Diagram:



Order Information:

Model No.	Description
LV-IMC0202F	Industrial media converter, 2*10/100Base-TX RJ45 ports and 2*100Base-X SFP slots, DIN-Rail, 12-58VDC, -40°C to 75°C operating temperature (The transmission distance of the fiber port depends on the SFP transceiver)

LV-IMC0101G Series

1*10/100/1000Base-TX to 1*1000Base-FX Compact Size Industrial Media Converter

Features:

- 1*10/100/1000Base-TX RJ45 port.
- 1*1000Base-FX SC/SFP fiber port (FC or ST optional).
- Supports 12-58VDC input, redundant power supply with reverse polarity and over-voltage protection.
- DIP switch functions: 1). Link Fault Pass-through (LFP), 2). Flow control, 3). Broadcast storm restraint, 4). Fiber port 100M/1000M speed selection.
- Watchdog supported, enabling automatic reboot in case of device freeze.
- IP40-rated fan-less aluminum alloy housing with DIN-Rail hardware design.
- Operating temperature range: -40℃ to 75℃.

Overview:

The Linkvue LV-IMC0101G is an unmanaged industrial-grade media converter with 1-port 10/100/1000Base-TX RJ45 and 1-port 1000Base-FX SC/SFP (FC or ST optional) fiber optic interface. It boasts features like LFP, flow control, broadcast storm restraint, and fiber port 100M/1000M speed selection, all configurable via the DIP switch on the top panel.

The LV-IMC0101G series offers a cost-effective and user-friendly solution, delivering vital industrial Ethernet networking functions. This includes a wide power input range of 12-58VDC, redundant power design with safeguards against polarity reversal and over-voltage, a sturdy fan-less IP40 compact housing suitable for DIN-Rail installation. It operates effectively in a wide temperature range from -40℃ to 75℃ and excels in high-level

EMI/EMC performance. These converters are designed for challenging environments such as heavy industrial factories, transportation, oil & gas facilities, chemicals, IP surveillance, and process automation, these converters exceed standard commercial product specifications.

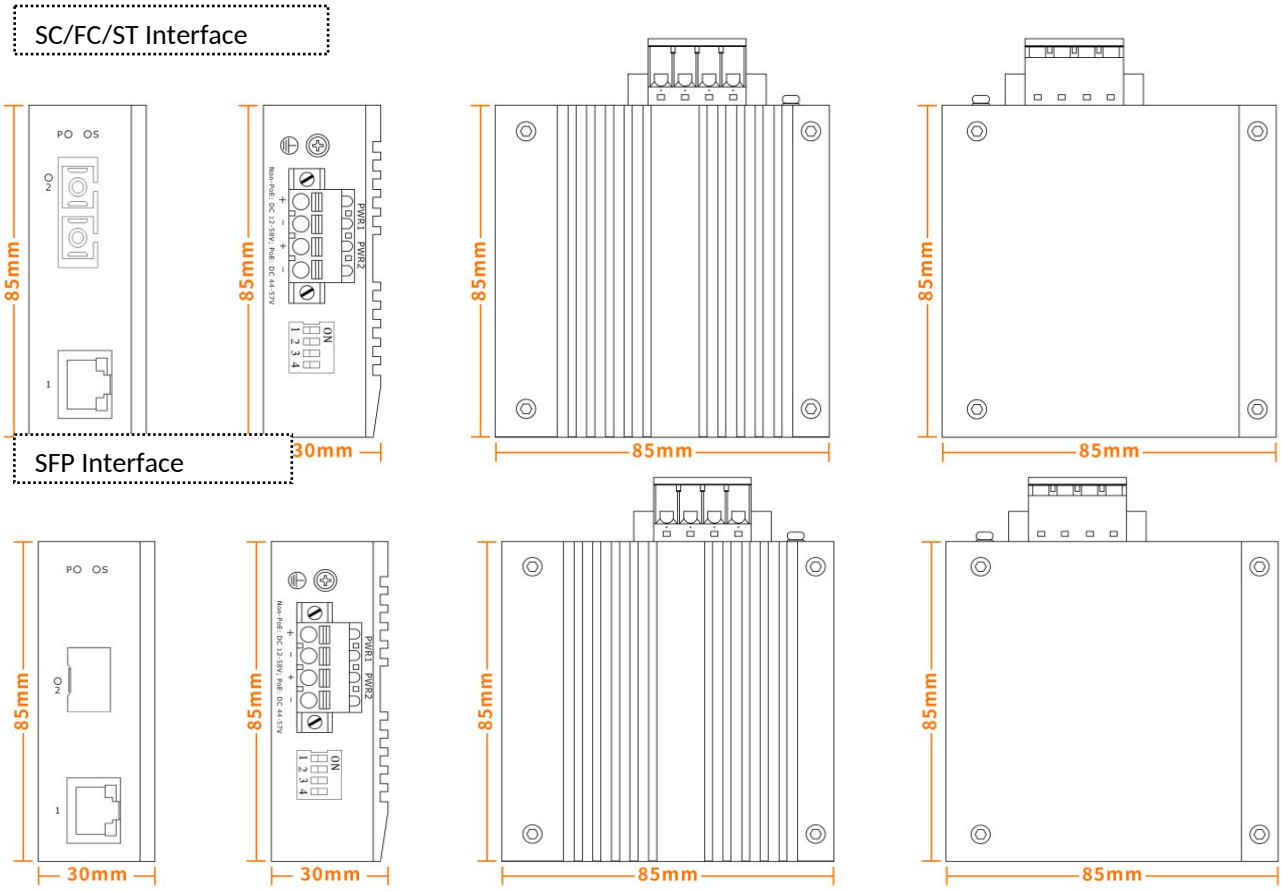
Technical Specification:

<table>
<tr><td rowspan="3">Interface</td><td colspan="2">Fiber port</td><td>Ethernet (RJ45) port</td></tr>
<tr><td colspan="2">1</td><td>1</td></tr>
<tr><td colspan="3">1*10/100/1000Base-TX RJ45 port
1*1000Base-FX SC/SFP fiber port (FC or ST optional)</td></tr>
<tr><td>Standard</td><td colspan="3">IEEE 802.3 10Base-T Ethernet
IEEE 802.3u Fast Ethernet
IEEE 802.3ab Gigabit Ethernet
IEEE 802.3x Full-Duplex Flow Control
IEEE 802.3az Energy Efficient Ethernet</td></tr>
<tr><td>DIP Switch</td><td colspan="3">1). Link Fault Pass-through (LFP)
2). Flow control
3). Broadcast storm restraint
4). Fiber port 100M/1000M speed selection</td></tr>
<tr><td rowspan="9">LED Indicator</td><td rowspan="2">P (Power Indicator) Green</td><td colspan="2">Off: Device power is off or a failure has occurred</td></tr>
<tr><td colspan="2">On: Device power is normal</td></tr>
<tr><td rowspan="2">S (System Indicator) Red</td><td colspan="2">Off: Chip operation is normal</td></tr>
<tr><td colspan="2">On: Chip read/write operations are abnormal</td></tr>
<tr><td rowspan="4">1 (RJ45 Port)</td><td>Green Indicator</td><td>Yellow Indicator</td></tr>
<tr><td>Off: Port link is inactive</td><td>Off: Port speed is 10/100M</td></tr>
<tr><td>On: Port link is active</td><td rowspan="2">On: Port speed is 1000M</td></tr>
<tr><td>Blinking: Data transmission on TX/RX</td></tr>
<tr><td rowspan="3">2 (Fiber Port) Green</td><td colspan="2">Off: Port link is inactive</td></tr>
<tr><td colspan="2">On: Port link is active</td></tr>
<tr><td colspan="2">Blinking: Data transmission on TX/RX</td></tr>
<tr><td colspan="4">Power Parameter</td></tr>
<tr><td>Input voltage</td><td colspan="3">12-58VDC (redundant power input)</td></tr>
<tr><td>Input current</td><td colspan="3">0.2A Max</td></tr>
</table>

Total power consumption	Full load ≤2W
Connector	Removable 4-pin terminal block
Reverse polarity protection	Supported
Over-voltage protection	Supported
Switching Feature	
Switching capacity	2.0 Gbps
Packet forwarding rate	2.97 Mpps
MAC address table	8K
VLAN	4K
Buffer	1M
Forwarding delay	<10us
Jumbo frame	10K bytes
MDX/MIDX	Supported
Watchdog	Supported
Network Topology	
Star topology	Supported
Bus topology	Supported
Tree topology	Supported
Mechanical Structure	
IP grade	IP40
Installation method	DIN-Rail
Dimension (W*D*H)	30*85*85 mm
Weight	0.35 kg
Operating Environment	Operating temperature: -40℃ to 75℃ Storage temperature: -40℃ to 85℃ Relative humidity: 5% to 95% (non-condensing)

Industrial Standard	Surge protection of power: IEC 61000-4-5 Level 3 (4kV/2kV, 8/20us) Surge protection of Ethernet port: IEC 61000-4-5 Level 3 (4kV/2kV, 10/700us) DIP: IEC 61000-4-11 Level 3 (10V) ESD: IEC 61000-4-2 Level 4 (8kV/15kV) Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Certification	CE, FCC, RoHS
Warranty	5 years

Structure Diagram:



Order Information:

Model No.	Description
LV-IMC0101G-SFP	Industrial media converter, 1*10/100/1000Base-TX RJ45 port and 1*1000Base-X SFP slot, DIN-Rail, 12-58VDC, -40℃ to 75℃ operating temperature (The transmission distance of the fiber port depends on the SFP transceiver)
LV-IMC0101G-SC	Industrial media converter, 1*10/100/1000Base-TX RJ45 port and 1*1000Base-FX SC port, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 550m, 20/40/60/80/100/120Km optional,

	DIN-Rail, 12-58VDC, -40℃ to 75℃ operating temperature
LV-IMC0101G-FC	Industrial media converter, 1*10/100/1000Base-TX RJ45 port and 1*1000Base-FX FC port, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 550m, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40℃ to 75℃ operating temperature
LV-IMC0101G-ST	Industrial media converter, 1*10/100/1000Base-TX RJ45 port and 1*1000Base-FX ST port, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 550m, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40℃ to 75℃ operating temperature

LV-IMC0102G Series

2*10/100/1000Base-TX to 1*1000Base-FX Compact Size Industrial Media Converter

Features:

- 2*10/100/1000Base-TX RJ45 ports.
- 1*1000Base-FX SC/SFP fiber port (FC or ST optional).
- Supports 12-58VDC input, redundant power supply with reverse polarity and over-voltage protection.
- DIP switch function: 1). Link Fault Pass-through (LFP), 2). Flow control, 3). Broadcast storm restraint, 4). Fiber port 100M/1000M speed selection.
- Watchdog supported, enabling automatic reboot in case of device freeze.
- IP40-rated fan-less aluminum alloy housing with DIN-Rail hardware design.
- Operating temperature range: -40℃ to 75℃.

Overview:

The Linkvue LV-IMC0102G is an unmanaged industrial-grade media converter with 2-port 10/100/1000Base-TX

RJ45 and 1-port 1000Base-FX SC/SFP (FC or ST optional) fiber optic interface. It boasts features like LFP, flow control, broadcast storm restraint, and fiber port 100M/1000M speed selection, all configurable via the DIP switch on the top panel.

The LV-IMC0102G series offers a cost-effective and user-friendly solution, delivering vital industrial Ethernet networking functions. This includes a wide power input range of 12-58VDC, redundant power design with safeguards against polarity reversal and over-voltage, a sturdy fan-less IP40 compact housing suitable for DIN-Rail installation. It operates effectively in a wide temperature range from -40℃ to 75℃ and excels in high-level EMI/EMC performance. These converters are designed for challenging environments such as heavy industrial factories, transportation, oil & gas facilities, chemicals, IP surveillance, and process automation, these converters exceed standard commercial product specifications.

Technical Specification:

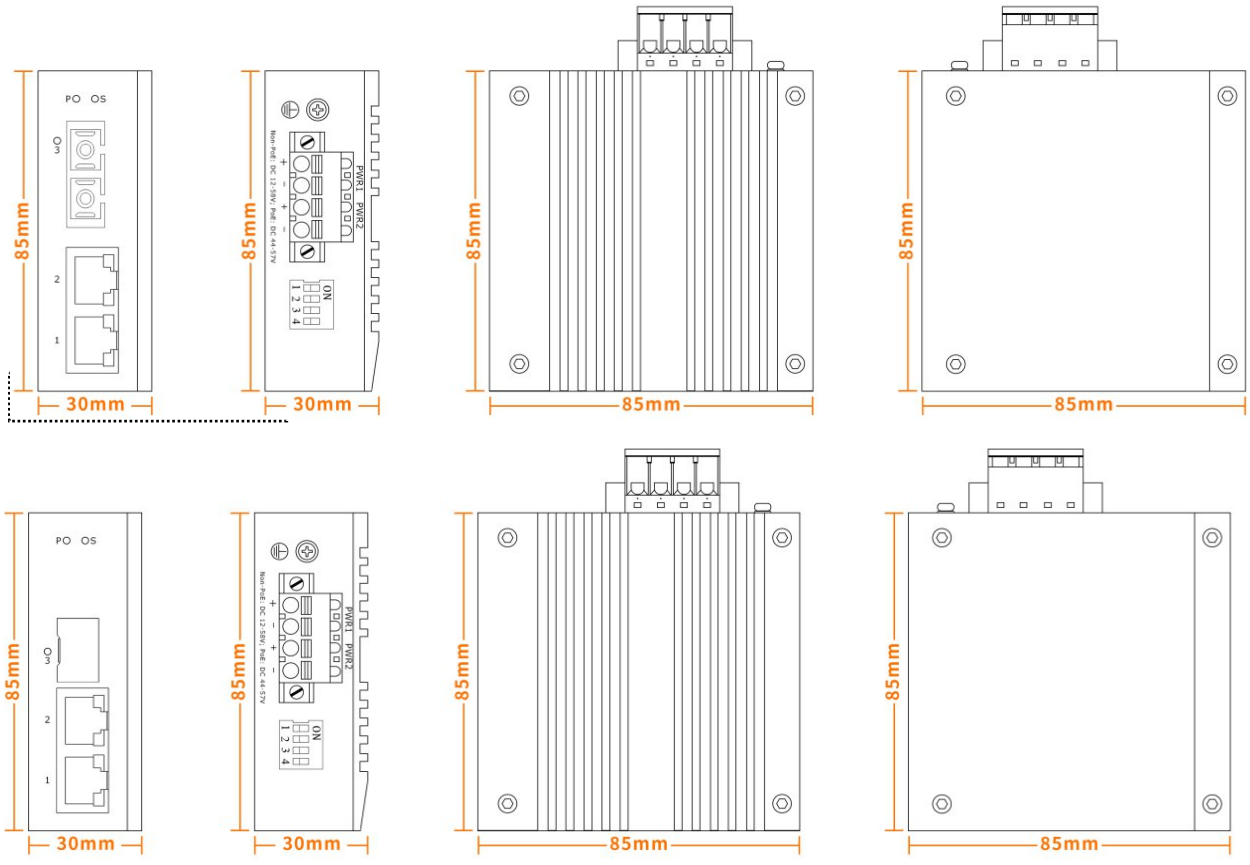
<table>
<tr><td rowspan="3">Interface</td><td colspan="2">Fiber port</td><td colspan="2">Ethernet (RJ45) port</td></tr>
<tr><td colspan="2">1</td><td colspan="2">2</td></tr>
<tr><td colspan="4">2*10/100/1000Base-TX RJ45 ports
1*1000Base-FX SC/SFP fiber port (FC or ST optional)</td></tr>
<tr><td>Standard</td><td colspan="4">IEEE 802.3 10Base-T Ethernet
IEEE 802.3u Fast Ethernet
IEEE 802.3ab Gigabit Ethernet
IEEE 802.3x Full-Duplex Flow Control
IEEE 802.3az Energy Efficient Ethernet</td></tr>
<tr><td>DIP Switch</td><td colspan="4">1). Link Fault Pass-through (LFP)
2). Flow control
3). Broadcast storm restraint
4). Fiber port 100M/1000M speed selection</td></tr>
<tr><td rowspan="7">LED Indicator</td><td rowspan="2">P (Power Indicator)
Green</td><td colspan="3">Off: Device power is off or a failure has occurred</td></tr>
<tr><td colspan="3">On: Device power is normal</td></tr>
<tr><td rowspan="2">S (System Indicator)
Red</td><td colspan="3">Off: Chip operation is normal</td></tr>
<tr><td colspan="3">On: Chip read/write operations are abnormal</td></tr>
<tr><td rowspan="4">1-2 (RJ45 Port)</td><td>Green Indicator</td><td colspan="2">Yellow Indicator</td></tr>
<tr><td>Off: Port link is inactive</td><td colspan="2">Off: Port speed is 10/100M</td></tr>
<tr><td>On: Port link is active</td><td colspan="2" rowspan="2">On: Port speed is 1000M</td></tr>
<tr><td>Blinking: Data transmission on TX/RX</td></tr>
</table>

	3 (Fiber Port) Green	Off: Port link is inactive
		On: Port link is active
		Blinking: Data transmission on TX/RX
Power Parameter		
Input voltage	12-58VDC (redundant power input)	
Input current	0.2A Max	
Total power consumption	Full load ≤2.5W	
Connector	Removable 4-pin terminal block	
Reverse polarity protection	Supported	
Over-voltage protection	Supported	
Switching Feature		
Switching capacity	6.0 Gbps	
Packet forwarding rate	8.92 Mpps	
MAC address table	8K	
VLAN	4K	
Buffer	1M	
Forwarding delay	<10us	
Jumbo frame	10K bytes	
MDX/MIDX	Supported	
Watchdog	Supported	
Network Topology		
Star topology	Supported	
Bus topology	Supported	
Tree topology	Supported	
Mechanical Structure		
IP grade	IP40	
Installation method	DIN-Rail	
Dimension (W*D*H)	30*85*85 mm	
Weight	0.35 kg	

Operating Environment	Operating temperature: -40℃ to 75℃ Storage temperature: -40℃ to 85℃ Relative humidity: 5% to 95% (non-condensing)
Industrial Standard	Surge protection of power: IEC 61000-4-5 Level 3 (4kV/2kV, 8/20us) Surge protection of Ethernet port: IEC 61000-4-5 Level 3 (4kV/2kV, 10/700us) DIP: IEC 61000-4-11 Level 3 (10V) ESD: IEC 61000-4-2 Level 4 (8kV/15kV) Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Certification	CE, FCC, RoHS
Warranty	5 years

Structure Diagram:

SC/FC/ST Interface



Order Information:

Model No.	Description

LV-IMC0102G-SFP	Industrial media converter, 2*10/100/1000Base-TX RJ45 ports and 1*1000Base-X SFP slot, DIN-Rail, 12-58VDC, -40℃ to 75℃ operating temperature (The transmission distance of the fiber port depends on the SFP transceiver)
LV-IMC0102G-SC	Industrial media converter, 2*10/100/1000Base-TX RJ45 ports and 1*1000Base-FX SC port, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 550m, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40℃ to 75℃ operating temperature
LV-IMC0102G-FC	Industrial media converter, 2*10/100/1000Base-TX RJ45 ports and 1*1000Base-FX FC port, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 550m, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40℃ to 75℃ operating temperature
LV-IMC0102G-ST	Industrial media converter, 2*10/100/1000Base-TX RJ45 ports and 1*1000Base-FX ST port, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 550m, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40℃ to 75℃ operating temperature

LV-IMC0202G Series

2*10/100/1000Base-TX to 2*1000Base-X Compact Size Industrial Media Converter

Features:

- 2*10/100/1000Base-TX RJ45 ports.
- 2*1000Base-X SFP slots.
- Supports 12-58VDC input, redundant power supply with reverse polarity and over-voltage protection.
- DIP switch function: 1). Link Fault Pass-through (LFP), 2). Flow control, 3). Broadcast storm restraint, 4). Fiber port 100M/1000M speed selection.
- Watchdog supported, enabling automatic reboot in case of device freeze.
- IP40-rated fan-less aluminum alloy housing with DIN-Rail hardware design.
- Operating temperature range: -40℃ to 75℃.

Overview:

The Linkvue LV-IMC0202G is an unmanaged industrial-grade media converter with 2-port 10/100/1000Base-TX RJ45 and 2-port 1000Base-X SFP slot. It boasts features like LFP, flow control, broadcast storm restraint, and fiber port 100M/1000M speed selection, all configurable via the DIP switch on the top panel.

The LV-IMC0202G series offers a cost-effective and user-friendly solution, delivering vital industrial Ethernet networking functions. This includes a wide power input range of 12-58VDC, redundant power design with safeguards against polarity reversal and over-voltage, a sturdy fan-less IP40 compact housing suitable for DIN-Rail installation. It operates effectively in a wide temperature range from -40℃ to 75℃ and excels in high-level EMI/EMC performance. These converters are designed for challenging environments such as heavy industrial factories, transportation, oil & gas facilities, chemicals, IP surveillance, and process automation, these converters exceed standard commercial product specifications.

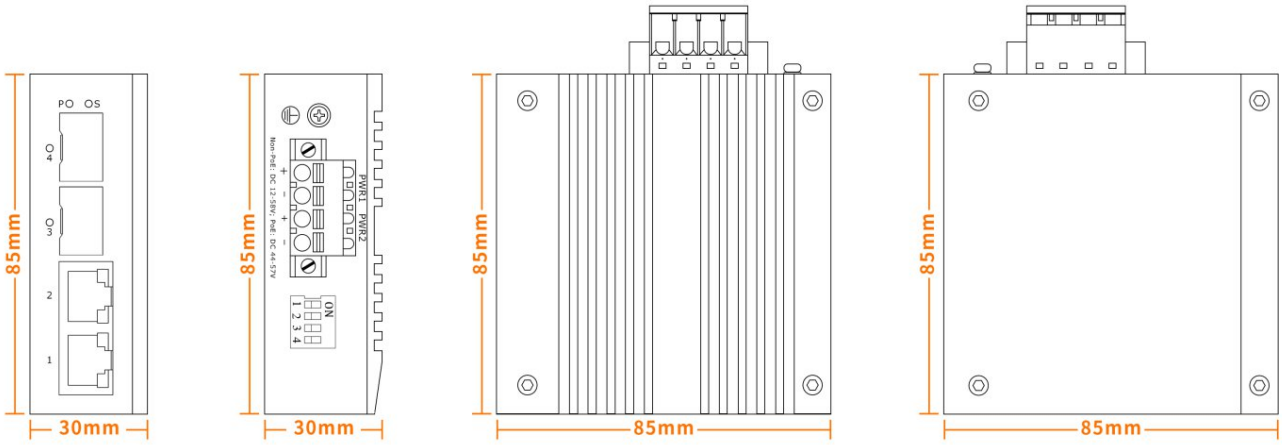
Technical Specification:

<table>
<tr><td rowspan="3">Interface</td><td colspan="3">Fiber port</td><td colspan="2">Ethernet (RJ45) port</td></tr>
<tr><td colspan="3">2</td><td colspan="2">2</td></tr>
<tr><td colspan="5">2*10/100/1000Base-TX RJ45 ports
2*1000Base-X SFP slots</td></tr>
<tr><td>Standard</td><td colspan="5">IEEE 802.3 10Base-T Ethernet
IEEE 802.3u Fast Ethernet
IEEE 802.3ab Gigabit Ethernet
IEEE 802.3x Full-Duplex Flow Control
IEEE 802.3az Energy Efficient Ethernet</td></tr>
<tr><td>DIP Switch</td><td colspan="5">1). Link Fault Pass-through (LFP)
2). Flow control
3). Broadcast storm restraint
4). Fiber port 100M/1000M speed selection</td></tr>
<tr><td rowspan="5">LED Indicator</td><td rowspan="2">P (Power Indicator)
Green</td><td colspan="4">Off: Device power is off or a failure has occurred</td></tr>
<tr><td colspan="4">On: Device power is normal</td></tr>
<tr><td rowspan="2">S (System Indicator)
Red</td><td colspan="4">Off: Chip operation is normal</td></tr>
<tr><td colspan="4">On: Chip read/write operations are abnormal</td></tr>
<tr><td rowspan="2">1-2 (RJ45 Port)</td><td colspan="2">Green Indicator</td><td colspan="2">Yellow Indicator</td></tr>
<tr><td colspan="2">Off: Port link is inactive</td><td colspan="2">Off: Port speed is 10/100M</td></tr>
</table>

		On: Port link is active	On: Port speed is 1000M
		Blinking: Data transmission on TX/RX	
	3-4 (Fiber Port) Green	Off: Port link is inactive	
		On: Port link is active	
		Blinking: Data transmission on TX/RX	
Power Parameter			
Input voltage	12-58VDC (redundant power input)		
Input current	0.3A Max		
Total power consumption	Full load ≤3W		
Connector	Removable 4-pin terminal block		
Reverse polarity protection	Supported		
Over-voltage protection	Supported		
Switching Feature			
Switching capacity	8.0 Gbps		
Packet forwarding rate	11.9 Mpps		
MAC address table	8K		
VLAN	4K		
Buffer	1M		
Forwarding delay	<10us		
Jumbo frame	10K bytes		
MDX/MIDX	Supported		
Watchdog	Supported		
Network Topology			
Star topology	Supported		
Bus topology	Supported		
Tree topology	Supported		
Mechanical Structure			
IP grade	IP40		
Installation method	DIN-Rail		

Dimension (W*D*H)	30*85*85 mm
Weight	0.35 kg
Operating Environment	Operating temperature: -40℃ to 75℃ Storage temperature: -40℃ to 85℃ Relative humidity: 5% to 95% (non-condensing)
Industrial Standard	Surge protection of power: IEC 61000-4-5 Level 3 (4kV/2kV, 8/20us) Surge protection of Ethernet port: IEC 61000-4-5 Level 3 (4kV/2kV, 10/700us) DIP: IEC 61000-4-11 Level 3 (10V) ESD: IEC 61000-4-2 Level 4 (8kV/15kV) Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Certification	CE, FCC, RoHS
Warranty	5 years

Structure Diagram:



Order Information:

Model No.	Description
LV-IMC0202G	Industrial media converter, 2*10/100/1000Base-TX RJ45 ports and 2*1000Base-X SFP slots, DIN-Rail, 12-58VDC, -40℃ to 75℃ operating temperature (The transmission distance of the fiber port depends on the SFP transceiver)

LV-IES0005F Series

5*10/100Base-TX Unmanaged Industrial Ethernet Switch

Features:

➢5*10/100Base-TX RJ45 ports (port 5 serves as the uplink port).

➢Supports 12-58VDC input, redundant power supply with reverse polarity and over-voltage protection.

➢DIP switch functions: 1). Port isolation, 2). Flow control, 3). Quality of Service (QoS), 4). Broadcast storm restraint.

➢Supports jumbo frames up to 10K bytes in size.

➢IP40-rated fan-less aluminum alloy housing with DIN-Rail hardware design.

➢Operating temperature range: -40℃ to 75℃.

Overview:

The Linkvue LV-IES0005F is an unmanaged industrial-grade Ethernet switch with 5-port 10/100Base-TX RJ45 (port 5 serves as the uplink port). It boasts features like port isolation, flow control, QoS, and broadcast storm restraint, all configurable via the DIP switch on the top panel.

The LV-IES0005F series offers a cost-effective and user-friendly solution, delivering vital industrial Ethernet networking functions. This includes a wide power input range of 12-58VDC, redundant power design with safeguards against polarity reversal and over-voltage, a sturdy fan-less IP40 compact housing suitable for DIN-Rail

installation. It operates effectively in a wide temperature range from -40℃ to 75℃ and excels in high-level EMI/EMC performance. These switches are designed for challenging environments such as heavy industrial factories, transportation, oil & gas facilities, chemicals, IP surveillance, and process automation, these switches exceed standard commercial product specifications.

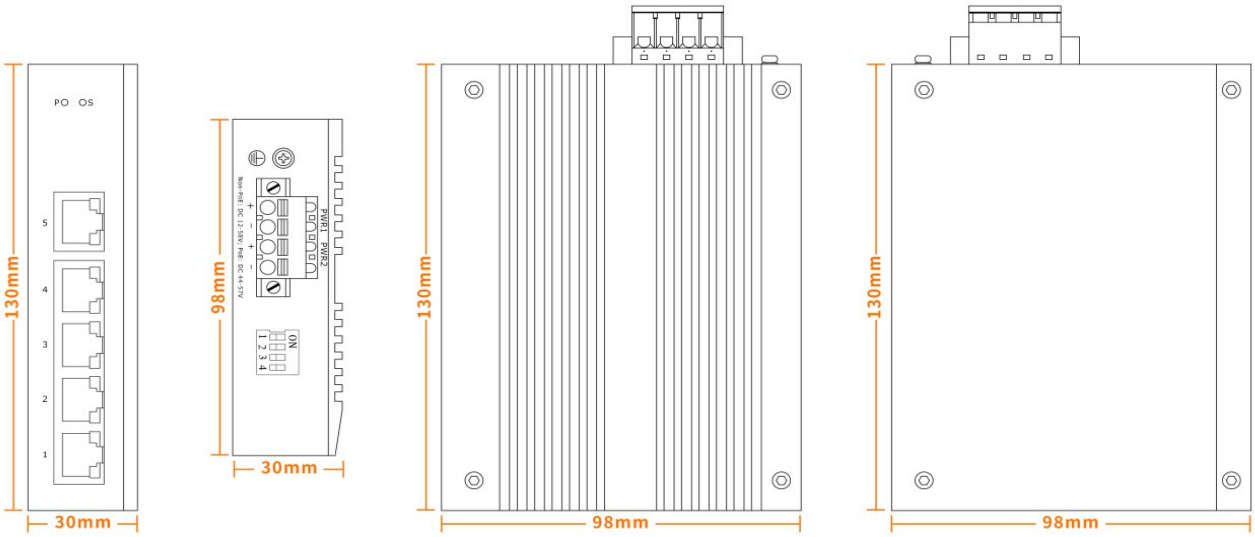
Technical Specification:

<table>
<tr><td rowspan="3">Interface</td><td colspan="2">Fiber port</td><td colspan="2">Ethernet (RJ45) port</td></tr>
<tr><td colspan="2">0</td><td colspan="2">5</td></tr>
<tr><td colspan="4">5*10/100Base-TX RJ45 ports (port 5 serves as the uplink port)</td></tr>
<tr><td>Standard</td><td colspan="4">IEEE 802.3 10Base-T Ethernet
IEEE 802.3u Fast Ethernet
IEEE 802.3x Full-Duplex Flow Control
IEEE 802.3az Energy Efficient Ethernet</td></tr>
<tr><td>DIP Switch</td><td colspan="4">1). Port isolation
2). Flow control
3). Quality of Service (QoS)
4). Broadcast storm restraint</td></tr>
<tr><td rowspan="8">LED Indicator</td><td rowspan="2">P (Power Indicator)
Green</td><td colspan="3">Off: Device power is off or a failure has occurred</td></tr>
<tr><td colspan="3">On: Device power is normal</td></tr>
<tr><td rowspan="2">S (System Indicator)
Red</td><td colspan="3">Off: Chip operation is normal</td></tr>
<tr><td colspan="3">On: Chip read/write operations are abnormal</td></tr>
<tr><td rowspan="4">1-5 (RJ45 Port)</td><td>Green Indicator</td><td colspan="2">Yellow Indicator</td></tr>
<tr><td>Off: Port link is inactive</td><td colspan="2">Off: Port speed is 10M</td></tr>
<tr><td>On: Port link is active</td><td colspan="2" rowspan="2">On: Port speed is 100M</td></tr>
<tr><td>Blinking: Data transmission on TX/RX</td></tr>
<tr><td colspan="5">Power Parameter</td></tr>
<tr><td>Input voltage</td><td colspan="4">12-58VDC (redundant power input)</td></tr>
<tr><td>Input current</td><td colspan="4">0.5A Max</td></tr>
<tr><td>Total power consumption</td><td colspan="4">Full load ≤4W</td></tr>
<tr><td>Connector</td><td colspan="4">Removable 4-pin terminal block</td></tr>
</table>

Reverse polarity protection	Supported
Over-voltage protection	Supported
Switching Feature	
Switching capacity	1.0 Gbps
Packet forwarding rate	1.48 Mpps
MAC address table	2K
VLAN	2K
Buffer	2M
Forwarding delay	<10us
Jumbo frame	10K bytes
MDX/MIDX	Supported
Watchdog	Supported
Network Topology	
Star topology	Supported
Bus topology	Supported
Tree topology	Supported
Mechanical Structure	
IP grade	IP40
Installation method	DIN-Rail
Dimension (W*D*H)	30*98*130 mm
Weight	0.55 kg
Operating Environment	Operating temperature: -40℃ to 75℃ Storage temperature: -40℃ to 85℃ Relative humidity: 5% to 95% (non-condensing)
Industrial Standard	Surge protection of power: IEC 61000-4-5 Level 3 (4kV/2kV, 8/20us) Surge protection of Ethernet port: IEC 61000-4-5 Level 3 (4kV/2kV, 10/700us) DIP: IEC 61000-4-11 Level 3 (10V) ESD: IEC 61000-4-2 Level 4 (8kV/15kV) Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6

Certification	CE, FCC, RoHS
Warranty	5 years

Structure Diagram:



Order Information:

Model No.	Description
LV-IES0005F	Unmanaged industrial Ethernet switch, 5*10/100Base-TX RJ45 ports, DIN-Rail, 12-58VDC, -40℃ to 75℃ operating temperature

LV-IES0008F Series

8*10/100Base-TX Unmanaged Industrial Ethernet Switch

Features:

- 8*10/100Base-TX RJ45 ports.
- Supports 12-58VDC input, redundant power supply with reverse polarity and over-voltage protection.
- DIP switch functions: 1). Port isolation, 2). Flow control, 3). Quality of Service (QoS), 4). Broadcast storm restraint.
- Supports jumbo frames up to 10K bytes in size.
- IP40-rated fan-less aluminum alloy housing with DIN-Rail hardware design.
- Operating temperature range: -40℃ to 75℃.

Overview:

The Linkvue LV-IES0008F is an unmanaged industrial-grade Ethernet switch with 8-port 10/100Base-TX RJ45. It boasts features like port isolation, flow control, QoS, and broadcast storm restraint, all configurable via the DIP switch on the top panel.

The LV-IES0008F series offers a cost-effective and user-friendly solution, delivering vital industrial Ethernet networking functions. This includes a wide power input range of 12-58VDC, redundant power design with safeguards against polarity reversal and over-voltage, a sturdy fan-less IP40 compact housing suitable for DIN-Rail installation. It operates effectively in a wide temperature range from -40℃ to 75℃ and excels in high-level

EMI/EMC performance. These switches are designed for challenging environments such as heavy industrial factories, transportation, oil & gas facilities, chemicals, IP surveillance, and process automation, these switches exceed standard commercial product specifications.

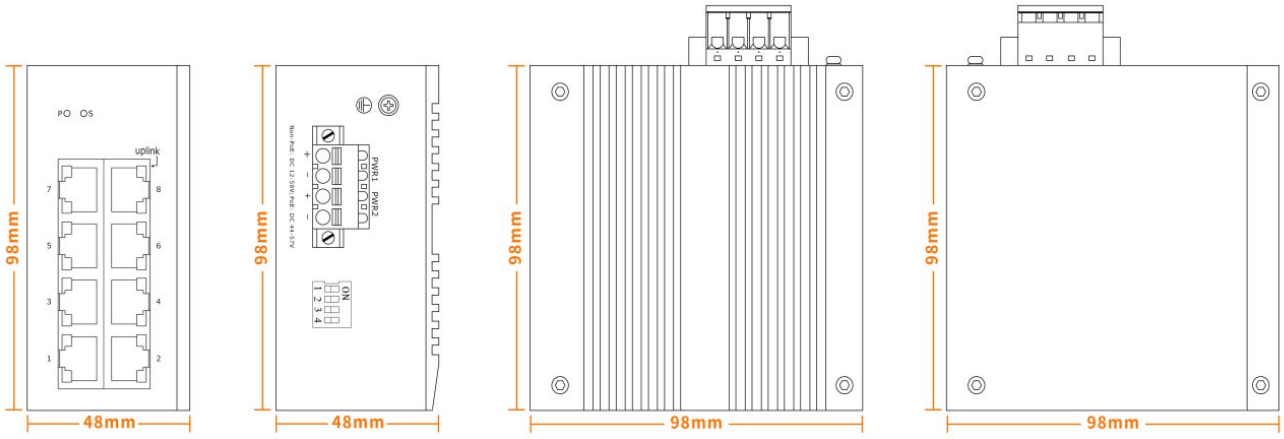
Technical Specification:

<table>
<tr><td rowspan="3">Interface</td><td colspan="3">Fiber port</td><td colspan="2">Ethernet (RJ45) port</td></tr>
<tr><td colspan="3">0</td><td colspan="2">8</td></tr>
<tr><td colspan="5">8*10/100Base-TX RJ45 ports</td></tr>
<tr><td>Standard</td><td colspan="5">IEEE 802.3 10Base-T Ethernet
IEEE 802.3u Fast Ethernet
IEEE 802.3x Full-Duplex Flow Control
IEEE 802.3az Energy Efficient Ethernet</td></tr>
<tr><td>DIP Switch</td><td colspan="5">1). Port isolation
2). Flow control
3). Quality of Service (QoS)
4). Broadcast storm restraint</td></tr>
<tr><td rowspan="6">LED Indicator</td><td rowspan="2">P (Power Indicator)
Green</td><td colspan="4">Off: Device power is off or a failure has occurred</td></tr>
<tr><td colspan="4">On: Device power is normal</td></tr>
<tr><td rowspan="2">S (System Indicator)
Red</td><td colspan="4">Off: Chip operation is normal</td></tr>
<tr><td colspan="4">On: Chip read/write operations are abnormal</td></tr>
<tr><td rowspan="4">1-8 (RJ45 Port)</td><td colspan="2">Green Indicator</td><td colspan="2">Yellow Indicator</td></tr>
<tr><td colspan="2">Off: Port link is inactive</td><td colspan="2">Off: Port speed is 10M</td></tr>
<tr><td colspan="2">On: Port link is active</td><td colspan="2" rowspan="2">On: Port speed is 100M</td></tr>
<tr><td colspan="2">Blinking: Data transmission on TX/RX</td></tr>
<tr><td colspan="6">Power Parameter</td></tr>
<tr><td>Input voltage</td><td colspan="5">12-58VDC (redundant power input)</td></tr>
<tr><td>Input current</td><td colspan="5">0.5A Max</td></tr>
<tr><td>Total power consumption</td><td colspan="5">Full load ≤4W</td></tr>
<tr><td>Connector</td><td colspan="5">Removable 4-pin terminal block</td></tr>
<tr><td>Reverse polarity protection</td><td colspan="5">Supported</td></tr>
</table>

Over-voltage protection	Supported
Switching Feature	
Switching capacity	1.6 Gbps
Packet forwarding rate	2.38 Mpps
MAC address table	2K
VLAN	2K
Buffer	2M
Forwarding delay	<10us
Jumbo frame	10K bytes
MDX/MIDX	Supported
Watchdog	Supported
Network Topology	
Star topology	Supported
Bus topology	Supported
Tree topology	Supported
Mechanical Structure	
IP grade	IP40
Installation method	DIN-Rail
Dimension (W*D*H)	48*98*98 mm
Weight	0.6 kg
Operating Environment	Operating temperature: -40℃ to 75℃ Storage temperature: -40℃ to 85℃ Relative humidity: 5% to 95% (non-condensing)
Industrial Standard	Surge protection of power: IEC 61000-4-5 Level 3 (4kV/2kV, 8/20us) Surge protection of Ethernet port: IEC 61000-4-5 Level 3 (4kV/2kV, 10/700us) DIP: IEC 61000-4-11 Level 3 (10V) ESD: IEC 61000-4-2 Level 4 (8kV/15kV) Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6

Certification	CE, FCC, RoHS
Warranty	5 years

Structure Diagram:



Order Information:

Model No.	Description
LV-IES0008F	Unmanaged industrial Ethernet switch, 8*10/100Base-TX RJ45 ports, DIN-Rail, 12-58VDC, -40℃ to 75℃ operating temperature

LV-IES0016F Series

16*10/100Base-TX Unmanaged Industrial Ethernet Switch

CE FCC RoHS compliant

Features:

- 16*10/100Base-TX RJ45 ports.
- Supports 12-58VDC input, redundant power supply with reverse polarity and over-voltage protection.
- Equipped with a single output relay alarm (terminal block pins 5/6) to indicate DC power failure.
- DIP switch functions: 1). Port isolation, 2). Flow control, 3). Quality of Service (QoS), 4). Broadcast storm restraint.
- Supports jumbo frames up to 10K bytes in size.
- IP40-rated fan-less aluminum alloy housing with DIN-Rail hardware design.
- Operating temperature range: -40℃ to 75℃.

Overview:

The Linkvue LV-IES0016F is an unmanaged industrial-grade Ethernet switch with 16-port 10/100Base-TX RJ45. It boasts features like port isolation, flow control, QoS, and broadcast storm restraint, all configurable via the DIP switch on the top panel.

The LV-IES0016F series offers a cost-effective and user-friendly solution, delivering vital industrial Ethernet networking functions. This includes a wide power input range of 12-58VDC, redundant power design with safeguards against polarity reversal and over-voltage, a sturdy fan-less IP40 compact housing suitable for DIN-Rail installation. It operates effectively in a wide temperature range from -40℃ to 75℃ and excels in high-level EMI/EMC performance. These switches are designed for challenging environments such as heavy industrial

factories, transportation, oil & gas facilities, chemicals, IP surveillance, and process automation, these switches exceed standard commercial product specifications.

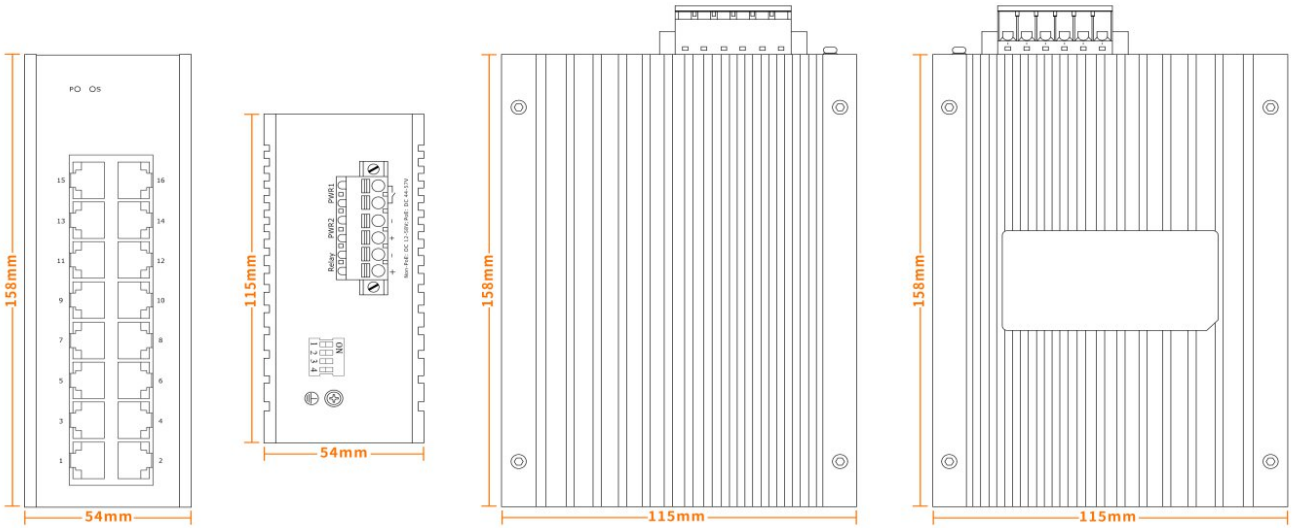
Technical Specification:

<table>
<tr><td rowspan="3">Interface</td><td colspan="2">Fiber port</td><td colspan="2">Ethernet (RJ45) port</td></tr>
<tr><td colspan="2">0</td><td colspan="2">16</td></tr>
<tr><td colspan="4">16*10/100Base-TX RJ45 ports</td></tr>
<tr><td>Alarm Port</td><td colspan="4">A single relay output is provided for power failure indication, the alarm relay can handle a current of 1A @ 24VDC</td></tr>
<tr><td>Standard</td><td colspan="4">IEEE 802.3 10Base-T Ethernet
IEEE 802.3u Fast Ethernet
IEEE 802.3x Full-Duplex Flow Control
IEEE 802.3az Energy Efficient Ethernet</td></tr>
<tr><td>DIP Switch</td><td colspan="4">1). Port isolation
2). Flow control
3). Quality of Service (QoS)
4). Broadcast storm restraint</td></tr>
<tr><td rowspan="7">LED Indicator</td><td rowspan="2">P (Power Indicator)
Green</td><td colspan="3">Off: Device power is off or a failure has occurred</td></tr>
<tr><td colspan="3">On: Device power is normal</td></tr>
<tr><td rowspan="2">S (System Indicator)
Red</td><td colspan="3">Off: Chip operation is normal</td></tr>
<tr><td colspan="3">On: Chip read/write operations are abnormal</td></tr>
<tr><td rowspan="4">1-16 (RJ45 Port)</td><td>Green Indicator</td><td>Yellow Indicator</td></tr>
<tr><td>Off: Port link is inactive</td><td>Off: Port speed is 10M</td></tr>
<tr><td>On: Port link is active</td><td rowspan="2">On: Port speed is 100M</td></tr>
<tr><td>Blinking: Data transmission on TX/RX</td></tr>
<tr><td colspan="5">Power Parameter</td></tr>
<tr><td>Input voltage</td><td colspan="4">12-58VDC (redundant power input)</td></tr>
<tr><td>Input current</td><td colspan="4">0.6A Max</td></tr>
<tr><td>Total power consumption</td><td colspan="4">Full load ≤8W</td></tr>
<tr><td>Connector</td><td colspan="4">Removable 6-pin terminal block with Pin 5-6 for relay alarm output</td></tr>
<tr><td>Reverse polarity protection</td><td colspan="4">Supported</td></tr>
</table>

Over-voltage protection	Supported
Over-current protection	Supported
Switching Feature	
Switching capacity	3.2 Gbps
Packet forwarding rate	4.76 Mpps
MAC address table	8K
VLAN	4K
Buffer	2M
Forwarding delay	<10us
Jumbo frame	10K bytes
MDX/MIDX	Supported
Watchdog	Supported
Network Topology	
Star topology	Supported
Bus topology	Supported
Tree topology	Supported
Mechanical Structure	
IP grade	IP40
Installation method	DIN-Rail
Dimension (W*D*H)	54*115*158 mm
Weight	1.35 kg
Operating Environment	Operating temperature: -40℃ to 75℃ Storage temperature: -40℃ to 85℃ Relative humidity: 5% to 95% (non-condensing)

Industrial Standard	EMI: FCC Part 15B Class A Surge protection of power: IEC 61000-4-5 6KV/4KV (8/20us) Surge protection of Ethernet port: IEC 61000-4-5 6KV/2KV (10/700us) RS: IEC 61000-4-3 80 MHz-1 GHz: 10V/m EFT: IEC 61000-4-4, power interface: 4kV, Ethernet port: 2kV CS: IEC 61000-4-6 10V ESD: IEC 61000-4-2 Level 4 (8kV/15kV) Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Certification	CE, FCC, RoHS
Warranty	5 years

Structure Diagram:



Order Information:

Model No.	Description
LV-IES0016F	Unmanaged industrial Ethernet switch, 16*10/100Base-TX RJ45 ports, DIN-Rail, 12-58VDC, -40℃ to 75℃ operating temperature

LV-IES0104F Series

4*10/100Base-TX to 1*100Base-FX Unmanaged Industrial Ethernet Switch

CE FCC RoHS compliant

Features:

- 4*10/100Base-TX RJ45 ports.
- 1*100Base-FX SC/SFP fiber port (FC or ST optional).
- Supports 12-58VDC input, redundant power supply with reverse polarity and over-voltage protection.
- DIP switch functions: 1). Port isolation, 2). Flow control, 3). Quality of Service (QoS), 4). Broadcast storm restraint.
- Supports jumbo frames up to 9K bytes in size.
- IP40-rated fan-less aluminum alloy housing with DIN-Rail hardware design.
- Operating temperature range: -40℃ to 75℃.

Overview:

The Linkvue LV-IES0104F is an unmanaged industrial-grade Ethernet switch with 4-port 10/100Base-TX RJ45 and 1-port 100Base-FX SC/SFP (FC or ST optional) fiber optic interface. It boasts features like port isolation, flow control, QoS, and broadcast storm restraint, all configurable via the DIP switch on the top panel.

The LV-IES0104F series offers a cost-effective and user-friendly solution, delivering vital industrial Ethernet networking functions. This includes a wide power input range of 12-58VDC, redundant power design with safeguards against polarity reversal and over-voltage, a sturdy fan-less IP40 compact housing suitable for DIN-Rail installation. It operates effectively in a wide temperature range from -40℃ to 75℃ and excels in high-level EMI/EMC performance. These switches are designed for challenging environments such as heavy industrial factories, transportation, oil & gas facilities, chemicals, IP surveillance, and process automation, these switches exceed standard commercial product specifications.

Technical Specification:

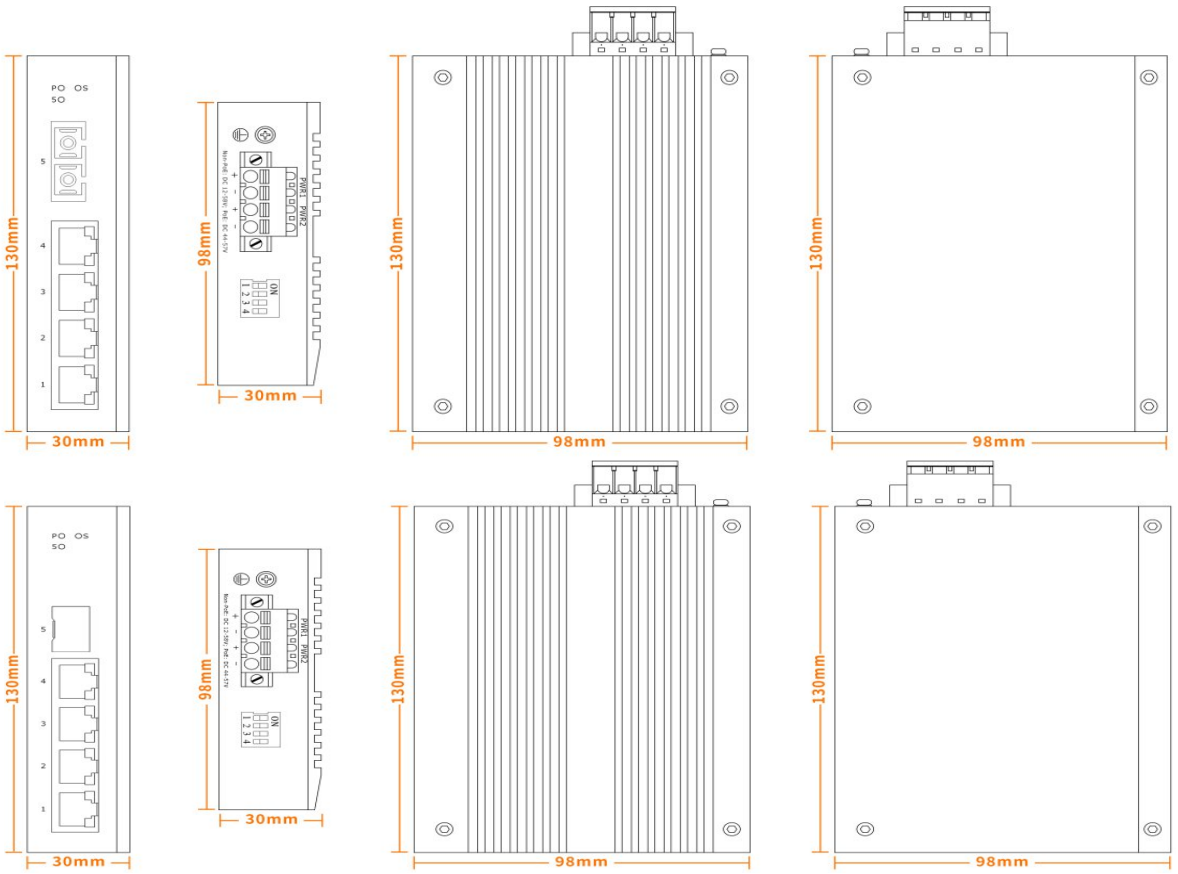
<table>
<tr><td rowspan="3">Interface</td><td colspan="2">Fiber port</td><td>Ethernet (RJ45) port</td></tr>
<tr><td colspan="2">1</td><td>4</td></tr>
<tr><td colspan="3">4*10/100Base-TX RJ45 ports
1*100Base-FX SC/SFP fiber port (FC or ST optional)</td></tr>
<tr><td>Standard</td><td colspan="3">IEEE 802.3 10Base-T Ethernet
IEEE 802.3u Fast Ethernet
IEEE 802.3x Full-Duplex Flow Control
IEEE 802.3az Energy Efficient Ethernet</td></tr>
<tr><td>DIP Switch</td><td colspan="3">1). Port isolation
2). Flow control
3). Quality of Service (QoS)
4). Broadcast storm restraint</td></tr>
<tr><td rowspan="6">LED Indicator</td><td rowspan="2">P (Power Indicator)
Green</td><td colspan="2">Off: Device power is off or a failure has occurred</td></tr>
<tr><td colspan="2">On: Device power is normal</td></tr>
<tr><td rowspan="2">S (System Indicator)
Red</td><td colspan="2">Off: Chip operation is normal</td></tr>
<tr><td colspan="2">On: Chip read/write operations are abnormal</td></tr>
<tr><td rowspan="3">1-4 (RJ45 Port)</td><td>Green Indicator</td><td>Yellow Indicator</td></tr>
<tr><td>Off: Port link is inactive</td><td>Off: Port speed is 10M</td></tr>
<tr><td>On: Port link is active</td><td>On: Port speed is 100M</td></tr>
</table>

		Blinking: Data transmission on TX/RX	
	5 (Fiber Port) Green	Off: Port link is inactive	
		On: Port link is active	
		Blinking: Data transmission on TX/RX	
Power Parameter			
Input voltage	12-58VDC (redundant power input)		
Input current	0.5A Max		
Total power consumption	Full load ≤3W		
Connector	Removable 4-pin terminal block		
Reverse polarity protection	Supported		
Over-voltage protection	Supported		
Switching Feature			
Switching capacity	1.0 Gbps		
Packet forwarding rate	1.48 Mpps		
MAC address table	2K		
VLAN	2K		
Buffer	2M		
Forwarding delay	<10us		
Jumbo frame	9K bytes		
MDX/MIDX	Supported		
Watchdog	Supported		
Network Topology			
Star topology	Supported		
Bus topology	Supported		
Tree topology	Supported		
Mechanical Structure			
IP grade	IP40		
Installation method	DIN-Rail		
Dimension (W*D*H)	30*98*130 mm		

Weight	0.55 kg
Operating Environment	Operating temperature: -40℃ to 75℃ Storage temperature: -40℃ to 85℃ Relative humidity: 5% to 95% (non-condensing)
Industrial Standard	Surge protection of power: IEC 61000-4-5 Level 3 (4kV/2kV, 8/20us) Surge protection of Ethernet port: IEC 61000-4-5 Level 3 (4kV/2kV, 10/700us) DIP: IEC 61000-4-11 Level 3 (10V) ESD: IEC 61000-4-2 Level 4 (8kV/15kV) Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Certification	CE, FCC, RoHS
Warranty	5 years

Structure Diagram:

SC/FC/ST Interface



LV-IES0108F Series

8*10/100Base-TX to 1*100Base-FX Unmanaged Industrial Ethernet Switch

Order Information:

Model No.	Description
LV-IES0104F-SFP	Unmanaged industrial Ethernet switch, 4*10/100Base-TX RJ45 ports and 1*100Base-X SFP slot, DIN-Rail, 12-58VDC, -40℃ to 75℃ operating temperature (The transmission distance of the fiber port depends on the SFP transceiver)
LV-IES0104F-SC	Unmanaged industrial Ethernet switch, 4*10/100Base-TX RJ45 ports and 1*100Base-FX SC port, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 2Km, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40℃ to 75℃ operating temperature
LV-IES0104F-FC	Unmanaged industrial Ethernet switch, 4*10/100Base-TX RJ45 ports and 1*100Base-FX FC port, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 2Km, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40℃ to 75℃ operating temperature
LV-IES0104F-ST	Unmanaged industrial Ethernet switch, 4*10/100Base-TX RJ45 ports and 1*100Base-FX ST port, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 2Km, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40℃ to 75℃ operating temperature

Features:

- 8*10/100Base-TX RJ45 ports.
- 1*100Base-FX SC/SFP fiber port (FC or ST optional) .
- Supports 12-58VDC input, redundant power supply with reverse polarity and over-voltage protection.
- DIP switch functions: 1). Port isolation, 2). Flow control, 3). Quality of Service (QoS), 4). Broadcast storm restraint.
- Supports jumbo frames up to 9K bytes in size.
- IP40-rated fan-less aluminum alloy housing with DIN-Rail hardware design.
- Operating temperature range: -40℃ to 75℃.

Overview:

The Linkvue LV-IES0108F is an unmanaged industrial-grade Ethernet switch with 8-port 10/100Base-TX RJ45 and 1-port 100Base-FX SC/SFP (FC or ST optional) fiber optic interface. It boasts features like port isolation, flow control, QoS, and broadcast storm restraint, all configurable via the DIP switch on the top panel.

The LV-IES0108F series offers a cost-effective and user-friendly solution, delivering vital industrial Ethernet networking functions. This includes a wide power input range of 12-58VDC, redundant power design with safeguards against polarity reversal and over-voltage, a sturdy fan-less IP40 compact housing suitable for DIN-Rail installation. It operates effectively in a wide temperature range from -40℃ to 75℃ and excels in high-level EMI/EMC performance. These switches are designed for challenging environments such as heavy industrial factories, transportation, oil & gas facilities, chemicals, IP surveillance, and process automation, these switches exceed standard commercial product specifications.

Technical Specification:

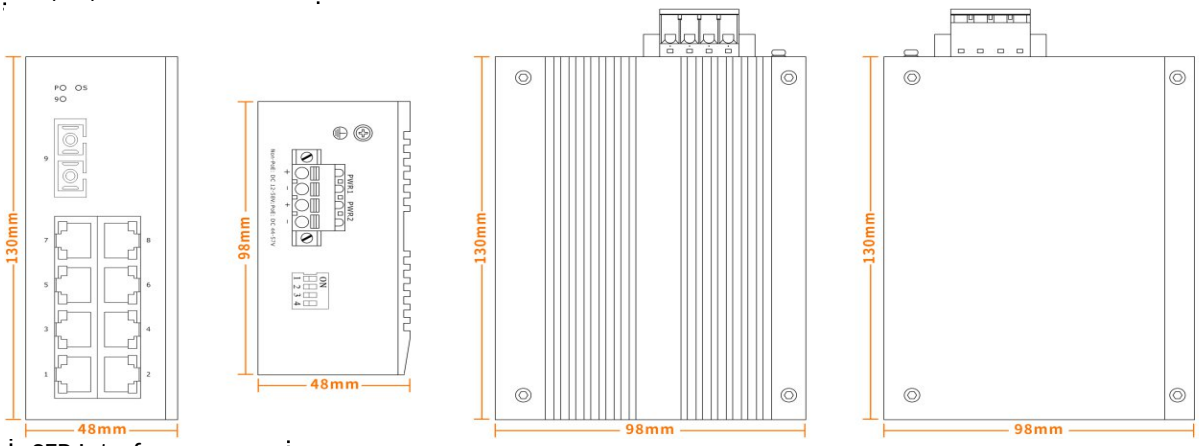
<table>
<tr><td rowspan="3">Interface</td><td colspan="2">Fiber port</td><td>Ethernet (RJ45) port</td></tr>
<tr><td colspan="2">1</td><td>8</td></tr>
<tr><td colspan="3">8*10/100Base-TX RJ45 ports
1*100Base-FX SC/SFP fiber port (FC or ST optional)</td></tr>
<tr><td>Standard</td><td colspan="3">IEEE 802.3 10Base-T Ethernet
IEEE 802.3u Fast Ethernet
IEEE 802.3x Full-Duplex Flow Control
IEEE 802.3az Energy Efficient Ethernet</td></tr>
<tr><td>DIP Switch</td><td colspan="3">1). Port isolation
2). Flow control
3). Quality of Service (QoS)
4). Broadcast storm restraint</td></tr>
<tr><td rowspan="5">LED Indicator</td><td rowspan="2">P (Power Indicator)
Green</td><td colspan="2">Off: Device power is off or a failure has occurred</td></tr>
<tr><td colspan="2">On: Device power is normal</td></tr>
<tr><td rowspan="2">S (System Indicator)
Red</td><td colspan="2">Off: Chip operation is normal</td></tr>
<tr><td colspan="2">On: Chip read/write operations are abnormal</td></tr>
<tr><td>1-8 (RJ45 Port)</td><td>Green Indicator</td><td>Yellow Indicator</td></tr>
</table>

		Off: Port link is inactive	Off: Port speed is 10M
		On: Port link is active	On: Port speed is 100M
		Blinking: Data transmission on TX/RX	
	9 (Fiber Port) Green	Off: Port link is inactive	
		On: Port link is active	
		Blinking: Data transmission on TX/RX	
Power Parameter			
Input voltage	12-58VDC (redundant power input)		
Input current	0.5A Max		
Total power consumption	Full load ≤5W		
Connector	Removable 4-pin terminal block		
Reverse polarity protection	Supported		
Over-voltage protection	Supported		
Switching Feature			
Switching capacity	1.8 Gbps		
Packet forwarding rate	2.67 Mpps		
MAC address table	2K		
VLAN	2K		
Buffer	2M		
Forwarding delay	<10us		
Jumbo frame	9K bytes		
MDX/MIDX	Supported		
Watchdog	Supported		
Network Topology			
Star topology	Supported		
Bus topology	Supported		
Tree topology	Supported		
Mechanical Structure			
IP grade	IP40		

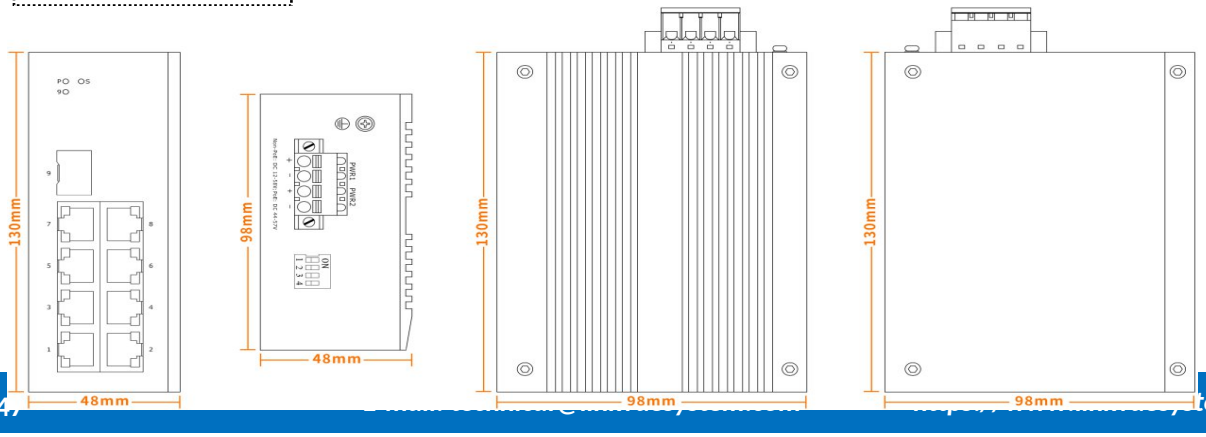
Installation method	DIN-Rail
Dimension (W*D*H)	48*98*130mm
Weight	0.7 kg
Operating Environment	Operating temperature: -40℃ to 75℃ Storage temperature: -40℃ to 85℃ Relative humidity: 5% to 95% (non-condensing)
Industrial Standard	Surge protection of power: IEC 61000-4-5 Level 3 (4kV/2kV, 8/20us) Surge protection of Ethernet port: IEC 61000-4-5 Level 3 (4kV/2kV, 10/700us) DIP: IEC 61000-4-11 Level 3 (10V) ESD: IEC 61000-4-2 Level 4 (8kV/15kV) Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Certification	CE, FCC, RoHS
Warranty	5 years

Structure Diagram:

SC/FC/ST Interface



SFP Interface



LV-IES0204F Series

4*10/100Base-TX to 2*100Base-FX Unmanaged Industrial Ethernet Switch

Order Information:

Model No.	Description
LV-IES0108F-SFP	Unmanaged industrial Ethernet switch, 8*10/100Base-TX RJ45 ports and 1*100Base-X SFP slot, DIN-Rail, 12-58VDC, -40℃ to 75℃ operating temperature (The transmission distance of the fiber port depends on the SFP transceiver)
LV-IES0108F-SC	Unmanaged industrial Ethernet switch, 8*10/100Base-TX RJ45 ports and 1*100Base-FX SC port, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 2Km, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40℃ to 75℃ operating temperature
LV-IES0108F-FC	Unmanaged industrial Ethernet switch, 8*10/100Base-TX RJ45 ports and 1*100Base-FX FC port, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 2Km, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40℃ to 75℃ operating temperature
LV-IES0108F-ST	Unmanaged industrial Ethernet switch, 8*10/100Base-TX RJ45 ports and 1*100Base-FX ST port, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 2Km, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40℃ to 75℃ operating temperature

CE FCC RoHS compliant

Features:

- 4*10/100Base-TX RJ45 ports.
- 2*100Base-FX SC/SFP fiber ports (FC or ST optional).
- Supports 12-58VDC input, redundant power supply with reverse polarity and over-voltage protection.
- DIP switch functions: 1). Port isolation, 2). Flow control, 3). Quality of Service (QoS), 4). Broadcast storm restraint.
- Supports jumbo frames up to 9K bytes in size.
- IP40-rated fan-less aluminum alloy housing with DIN-Rail hardware design.
- Operating temperature range: -40℃ to 75℃.

Overview:

The Linkvue LV-IES0204F is an unmanaged industrial-grade Ethernet switch with 4-port 10/100Base-TX RJ45 and 2-port 100Base-FX SC/SFP (FC or ST optional) fiber optic interface. It boasts features like port isolation, flow control, QoS, and broadcast storm restraint, all configurable via the DIP switch on the top panel.

The LV-IES0204F series offers a cost-effective and user-friendly solution, delivering vital industrial Ethernet networking functions. This includes a wide power input range of 12-58VDC, redundant power design with safeguards against polarity reversal and over-voltage, a sturdy fan-less IP40 compact housing suitable for DIN-Rail installation. It operates effectively in a wide temperature range from -40℃ to 75℃ and excels in high-level EMI/EMC performance. These switches are designed for challenging environments such as heavy industrial factories, transportation, oil & gas facilities, chemicals, IP surveillance, and process automation, these switches exceed standard commercial product specifications.

Technical Specification:

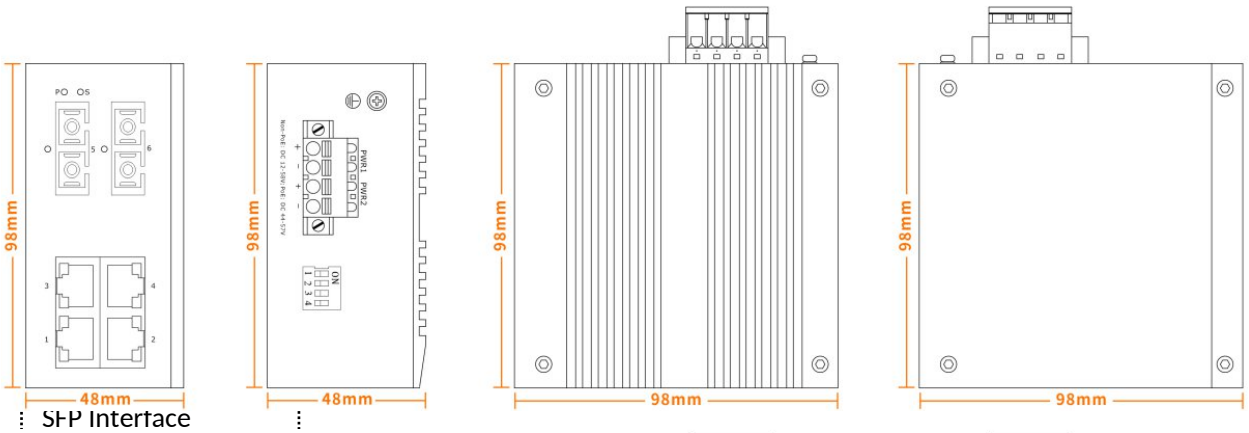
<table>
<tr><td rowspan="3">Interface</td><td colspan="2">Fiber port</td><td>Ethernet (RJ45) port</td></tr>
<tr><td colspan="2">2</td><td>4</td></tr>
<tr><td colspan="3">4*10/100Base-TX RJ45 ports
2*100Base-FX SC/SFP fiber ports (FC or ST optional)</td></tr>
<tr><td>Standard</td><td colspan="3">IEEE 802.3 10Base-T Ethernet
IEEE 802.3u Fast Ethernet
IEEE 802.3x Full-Duplex Flow Control
IEEE 802.3az Energy Efficient Ethernet</td></tr>
<tr><td>DIP Switch</td><td colspan="3">1). Port isolation
2). Flow control
3). Quality of Service (QoS)
4). Broadcast storm restraint</td></tr>
<tr><td rowspan="4">LED Indicator</td><td rowspan="2">P (Power Indicator)
Green</td><td colspan="2">Off: Device power is off or a failure has occurred</td></tr>
<tr><td colspan="2">On: Device power is normal</td></tr>
<tr><td rowspan="2">S (System Indicator)
Red</td><td colspan="2">Off: Chip operation is normal</td></tr>
<tr><td colspan="2">On: Chip read/write operations are abnormal</td></tr>
</table>

	1-4 (RJ45 Port)	Green Indicator	Yellow Indicator
		Off: Port link is inactive	Off: Port speed is 10M
		On: Port link is active	On: Port speed is 100M
		Blinking: Data transmission on TX/RX	
	5-6 (Fiber Port) Green	Off: Port link is inactive	
		On: Port link is active	
		Blinking: Data transmission on TX/RX	
Power Parameter			
Input voltage	12-58VDC (redundant power input)		
Input current	0.5A Max		
Total power consumption	Full load ≤5W		
Connector	Removable 4-pin terminal block		
Reverse polarity protection	Supported		
Over-voltage protection	Supported		
Switching Feature			
Switching capacity	1.2 Gbps		
Packet forwarding rate	1.78 Mpps		
MAC address table	2K		
VLAN	2K		
Buffer	2M		
Forwarding delay	<10us		
Jumbo frame	9K bytes		
MDX/MIDX	Supported		
Watchdog	Supported		
Network Topology			
Star topology	Supported		
Bus topology	Supported		
Tree topology	Supported		
Mechanical Structure			

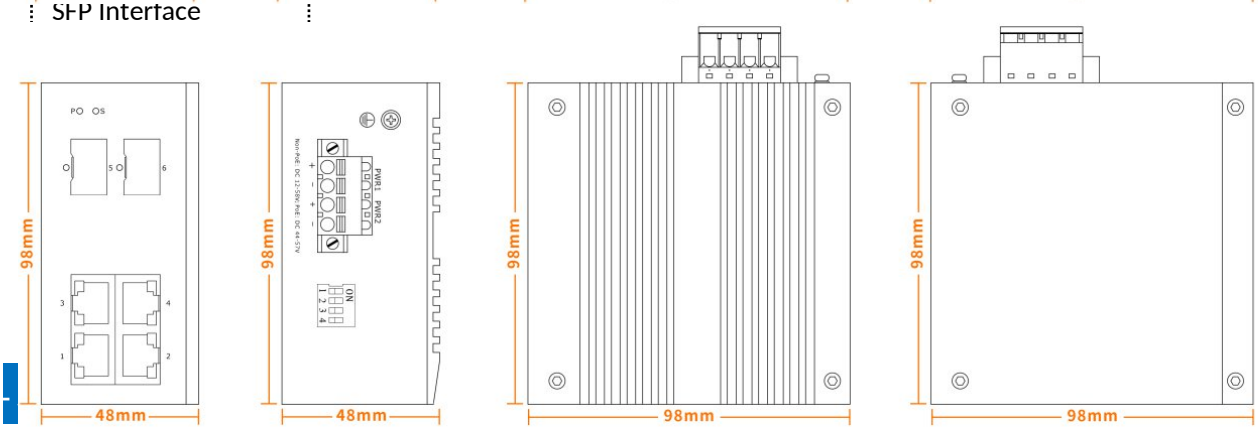
IP grade	IP40
Installation method	DIN-Rail
Dimension (W*D*H)	48*98*98 mm
Weight	0.6 kg
Operating Environment	Operating temperature: -40℃ to 75℃ Storage temperature: -40℃ to 85℃ Relative humidity: 5% to 95% (non-condensing)
Industrial Standard	Surge protection of power: IEC 61000-4-5 Level 3 (4kV/2kV, 8/20us) Surge protection of Ethernet port: IEC 61000-4-5 Level 3 (4kV/2kV, 10/700us) DIP: IEC 61000-4-11 Level 3 (10V) ESD: IEC 61000-4-2 Level 4 (8kV/15kV) Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Certification	CE, FCC, RoHS
Warranty	5 years

Structure Diagram:

SC/FC/ST Interface



SFP Interface



Order Information:

Model No.	Description
LV-IES0204F-SFP	Unmanaged industrial Ethernet switch, 4*10/100Base-TX RJ45 ports and 2*100Base-X SFP slots, DIN-Rail, 12-58VDC, -40°C to 75°C operating temperature (The transmission distance of the fiber port depends on the SFP transceiver)
LV-IES0204F-SC	Unmanaged industrial Ethernet switch, 4*10/100Base-TX RJ45 ports and 2*100Base-FX SC ports, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 2Km, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40°C to 75°C operating temperature
LV-IES0204F-FC	Unmanaged industrial Ethernet switch, 4*10/100Base-TX RJ45 ports and 2*100Base-FX FC ports, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 2Km, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40°C to 75°C operating temperature
LV-IES0204F-ST	Unmanaged industrial Ethernet switch, 4*10/100Base-TX RJ45 ports and 2*100Base-FX ST ports, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 2Km, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40°C to 75°C operating temperature

LV-IES0206F Series

6*10/100Base-TX to 2*100Base-FX Unmanaged Industrial Ethernet Switch

CE FCC RoHS compliant

Features:

- 6*10/100Base-TX RJ45 ports.
- 2*100Base-FX SC/SFP fiber ports (FC or ST optional).
- Supports 12-58VDC input, redundant power supply with reverse polarity and over-voltage protection.
- DIP switch functions: 1). Port isolation, 2). Flow control, 3). Quality of Service (QoS), 4). Broadcast storm restraint.
- Supports jumbo frames up to 9K bytes in size.
- IP40-rated fan-less aluminum alloy housing with DIN-Rail hardware design.

➢Operating temperature range: -40℃ to 75℃.

Overview:

The Linkvue LV-IES0206F is an unmanaged industrial-grade Ethernet switch with 6-port 10/100Base-TX RJ45 and 2-port 100Base-FX SC/SFP (FC or ST optional) fiber optic interface. It boasts features like port isolation, flow control, QoS, and broadcast storm restraint, all configurable via the DIP switch on the top panel.

The LV-IES0206F series offers a cost-effective and user-friendly solution, delivering vital industrial Ethernet networking functions. This includes a wide power input range of 12-58VDC, redundant power design with safeguards against polarity reversal and over-voltage, a sturdy fan-less IP40 compact housing suitable for DIN-Rail installation. It operates effectively in a wide temperature range from -40℃ to 75℃ and excels in high-level EMI/EMC performance. These switches are designed for challenging environments such as heavy industrial factories, transportation, oil & gas facilities, chemicals, IP surveillance, and process automation, these switches exceed standard commercial product specifications.

Technical Specification:

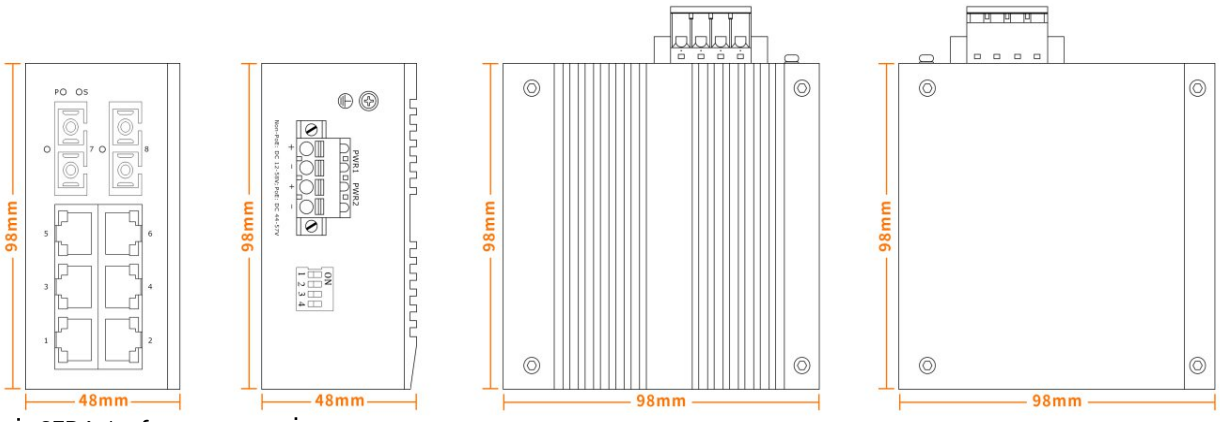
<table>
<tr><td rowspan="3">Interface</td><td colspan="2">Fiber port</td><td>Ethernet (RJ45) port</td></tr>
<tr><td colspan="2">2</td><td>6</td></tr>
<tr><td colspan="3">6*10/100Base-TX RJ45 ports
2*100Base-FX SC/SFP fiber ports (FC or ST optional)</td></tr>
<tr><td>Standard</td><td colspan="3">IEEE 802.3 10Base-T Ethernet
IEEE 802.3u Fast Ethernet
IEEE 802.3x Full-Duplex Flow Control
IEEE 802.3az Energy Efficient Ethernet</td></tr>
<tr><td>DIP Switch</td><td colspan="3">1). Port isolation
2). Flow control
3). Quality of Service (QoS)
4). Broadcast storm restraint</td></tr>
<tr><td rowspan="3">LED Indicator</td><td rowspan="2">P (Power Indicator)
Green</td><td>Off: Device power is off or a failure has occurred</td></tr>
<tr><td>On: Device power is normal</td></tr>
<tr><td>S (System Indicator)
Red</td><td>Off: Chip operation is normal</td></tr>
</table>

<table>
<tr><td rowspan="7"></td><td></td><td colspan="2">On: Chip read/write operations are abnormal</td></tr>
<tr><td rowspan="4">1-6 (RJ45 Port)</td><td>Green Indicator</td><td>Yellow Indicator</td></tr>
<tr><td>Off: Port link is inactive</td><td>Off: Port speed is 10M</td></tr>
<tr><td>On: Port link is active</td><td rowspan="2">On: Port speed is 100M</td></tr>
<tr><td>Blinking: Data transmission on TX/RX</td></tr>
<tr><td rowspan="3">7-8 (Fiber Port)
Green</td><td colspan="2">Off: Port link is inactive</td></tr>
<tr><td colspan="2">On: Port link is active</td></tr>
<tr><td colspan="2">Blinking: Data transmission on TX/RX</td></tr>
<tr><td colspan="3">Power Parameter</td></tr>
<tr><td>Input voltage</td><td colspan="2">12-58VDC (redundant power input)</td></tr>
<tr><td>Input current</td><td colspan="2">0.5A Max</td></tr>
<tr><td>Total power consumption</td><td colspan="2">Full load ≤5W</td></tr>
<tr><td>Connector</td><td colspan="2">Removable 4-pin terminal block</td></tr>
<tr><td>Reverse polarity protection</td><td colspan="2">Supported</td></tr>
<tr><td>Over-voltage protection</td><td colspan="2">Supported</td></tr>
<tr><td colspan="3">Switching Feature</td></tr>
<tr><td>Switching capacity</td><td colspan="2">1.6 Gbps</td></tr>
<tr><td>Packet forwarding rate</td><td colspan="2">2.38 Mpps</td></tr>
<tr><td>MAC address table</td><td colspan="2">2K</td></tr>
<tr><td>VLAN</td><td colspan="2">2K</td></tr>
<tr><td>Buffer</td><td colspan="2">2M</td></tr>
<tr><td>Forwarding delay</td><td colspan="2"><10us</td></tr>
<tr><td>Jumbo frame</td><td colspan="2">9K bytes</td></tr>
<tr><td>MDX/MIDX</td><td colspan="2">Supported</td></tr>
<tr><td>Watchdog</td><td colspan="2">Supported</td></tr>
<tr><td colspan="3">Network Topology</td></tr>
<tr><td>Star topology</td><td colspan="2">Supported</td></tr>
<tr><td>Bus topology</td><td colspan="2">Supported</td></tr>
<tr><td>Tree topology</td><td colspan="2">Supported</td></tr>
</table>

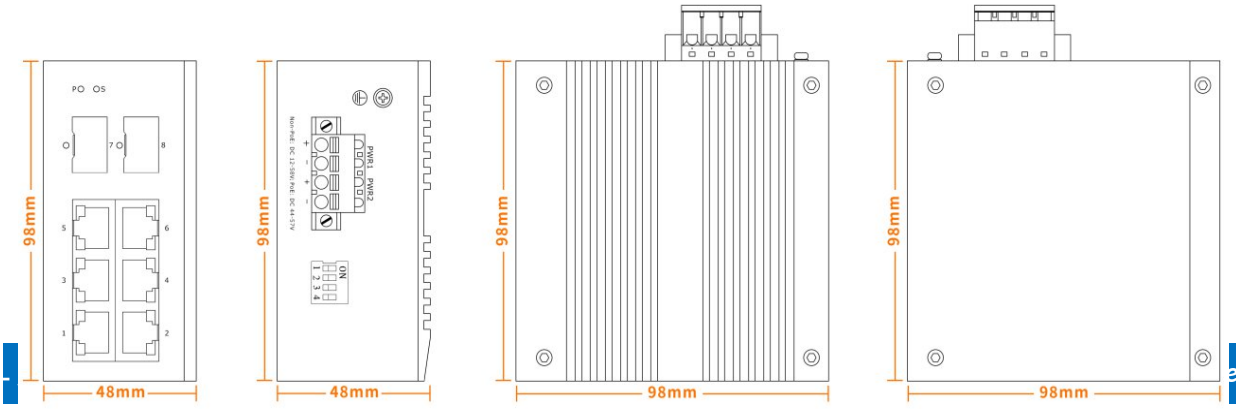
Mechanical Structure	
IP grade	IP40
Installation method	DIN-Rail
Dimension (W*D*H)	48*98*98 mm
Weight	0.6 kg
Operating Environment	Operating temperature: -40℃ to 75℃ Storage temperature: -40℃ to 85℃ Relative humidity: 5% to 95% (non-condensing)
Industrial Standard	Surge protection of power: IEC 61000-4-5 Level 3 (4kV/2kV, 8/20us) Surge protection of Ethernet port: IEC 61000-4-5 Level 3 (4kV/2kV, 10/700us) DIP: IEC 61000-4-11 Level 3 (10V) ESD: IEC 61000-4-2 Level 4 (8kV/15kV) Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Certification	CE, FCC, RoHS
Warranty	5 years

Structure Diagram:

SC/FC/ST Interface



SFP Interface



LV-IES0005G Series

5*10/100/1000Base-TX Unmanaged Industrial Ethernet Switch

Order Information:

Model No.	Description
LV-IES0206F-SFP	Unmanaged industrial Ethernet switch, 6*10/100Base-TX RJ45 ports and 2*100Base-X SFP slots, DIN-Rail, 12-58VDC, -40°C to 75°C operating temperature (The transmission distance of the fiber port depends on the SFP transceiver)
LV-IES0206F-SC	Unmanaged industrial Ethernet switch, 6*10/100Base-TX RJ45 ports and 2*100Base-FX SC ports, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 2Km, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40°C to 75°C operating temperature
LV-IES0206F-FC	Unmanaged industrial Ethernet switch, 6*10/100Base-TX RJ45 ports and 2*100Base-FX FC ports, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 2Km, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40°C to 75°C operating temperature
LV-IES0206F-ST	Unmanaged industrial Ethernet switch, 6*10/100Base-TX RJ45 ports and 2*100Base-FX ST ports, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 2Km, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40°C to 75°C operating temperature

1000Mbps Hi-Speed Ethernet

Features:

- 5*10/100/1000Base-TX RJ45 ports. (port 5 serves as the uplink port).
- Supports 12-58VDC input, redundant power supply with reverse polarity and over-voltage protection.
- DIP switch functions: 1). Port isolation, 2). Flow control, 3). Quality of Service (QoS), 4). Broadcast storm restraint.
- Supports jumbo frames up to 10K bytes in size.

➢IP40-rated fan-less aluminum alloy housing with DIN-Rail hardware design.

➢Operating temperature range: -40℃ to 75℃.

Overview:

The Linkvue LV-IES0005G is an unmanaged industrial-grade Ethernet switch with 5-port 10/100/1000Base-TX RJ45 (port 5 serves as the uplink port). It boasts features like port isolation, flow control, QoS, and broadcast storm restraint, all configurable via the DIP switch on the top panel.

The LV-IES0005G series offers a cost-effective and user-friendly solution, delivering vital industrial Ethernet networking functions. This includes a wide power input range of 12-58VDC, redundant power design with safeguards against polarity reversal and over-voltage, a sturdy fan-less IP40 compact housing suitable for DIN-Rail installation. It operates effectively in a wide temperature range from -40℃ to 75℃ and excels in high-level EMI/EMC performance. These switches are designed for challenging environments such as heavy industrial factories, transportation, oil & gas facilities, chemicals, IP surveillance, and process automation, these switches exceed standard commercial product specifications.

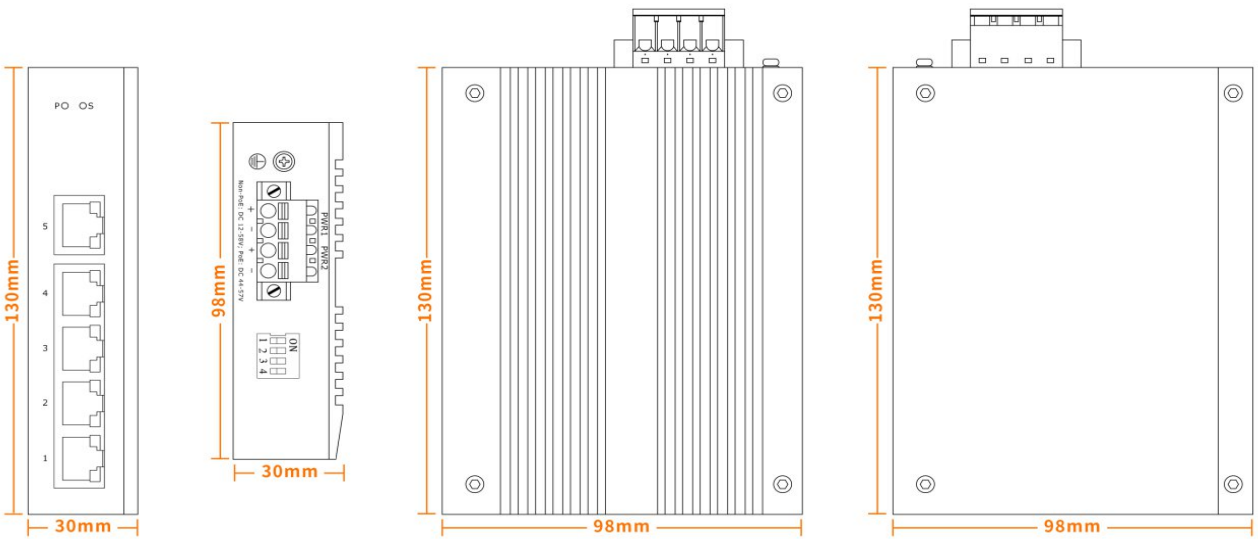
Technical Specification:

<table>
<tr><td rowspan="3">Interface</td><td>Fiber port</td><td>Ethernet (RJ45) port</td></tr>
<tr><td>0</td><td>5</td></tr>
<tr><td colspan="2">5*10/100/1000Base-TX RJ45 ports (port 5 serves as the uplink port)</td></tr>
<tr><td>Standard</td><td colspan="2">IEEE 802.3 10Base-T Ethernet
IEEE 802.3u Fast Ethernet
IEEE 802.3ab Gigabit Ethernet
IEEE 802.3x Full-Duplex Flow Control
IEEE 802.3az Energy Efficient Ethernet</td></tr>
<tr><td>DIP Switch</td><td colspan="2">1). Port isolation
2). Flow control
3). Quality of Service (QoS)
4). Broadcast storm restraint</td></tr>
<tr><td>LED Indicator</td><td>P (Power Indicator)
Green</td><td>Off: Device power is off or a failure has occurred</td></tr>
</table>

		On: Device power is normal	
	S (System Indicator) Red	Off: Chip operation is normal	
		On: Chip read/write operations are abnormal	
	1-5 (RJ45 Port)	Green Indicator	Yellow Indicator
		Off: Port link is inactive	Off: Port speed is 10/100M
		On: Port link is active	On: Port speed is 1000M
		Blinking: Data transmission on TX/RX	
Power Parameter			
Input voltage	12-58VDC (redundant power input)		
Input current	0.5A Max		
Total power consumption	Full load ≤5W		
Connector	Removable 4-pin terminal block		
Reverse polarity protection	Supported		
Over-voltage protection	Supported		
Switching Feature			
Switching capacity	10.0 Gbps		
Packet forwarding rate	14.8 Mpps		
MAC address table	2K		
VLAN	4K		
Buffer	3M		
Forwarding delay	<10us		
Jumbo frame	10K bytes		
MDX/MIDX	Supported		
Watchdog	Supported		
Network Topology			
Star topology	Supported		
Bus topology	Supported		
Tree topology	Supported		
Mechanical Structure			

IP grade	IP40
Installation method	DIN-Rail
Dimension (W*D*H)	30*98*130 mm
Weight	0.55 kg
Operating Environment	Operating temperature: -40℃ to 75℃ Storage temperature: -40℃ to 85℃ Relative humidity: 5% to 95% (non-condensing)
Industrial Standard	Surge protection of power: IEC 61000-4-5 Level 3 (4kV/2kV, 8/20us) Surge protection of Ethernet port: IEC 61000-4-5 Level 3 (4kV/2kV, 10/700us) DIP: IEC 61000-4-11 Level 3 (10V) ESD: IEC 61000-4-2 Level 4 (8kV/15kV) Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Certification	CE, FCC, RoHS
Warranty	5 years

Structure Diagram:



Order Information:

Model No.	Description

E-mail: technical@linkvuesystem.com https://www.linkvuesystem.com

LV-IES0005G	Unmanaged industrial Ethernet switch, 5*10/100/1000Base-TX RJ45 ports, DIN-Rail, 12-58VDC, -40 to 75℃ operating temperature

LV-IES0008G Series

8*10/100/1000Base-TX Unmanaged Industrial Ethernet Switch

Features:

- 8*10/100/1000Base-TX RJ45 ports.
- Supports 12-58VDC input, redundant power supply with reverse polarity and over-voltage protection.
- DIP switch functions: 1). Port isolation, 2). Flow control, 3). Quality of Service (QoS), 4). Broadcast storm restraint.
- Supports jumbo frames up to 10K bytes in size.
- IP40-rated fan-less aluminum alloy housing with DIN-

1000Mbps Hi-Speed Ethernet
1000 Mbps
CE FCC RoHS compliant

Rail hardware design.

➢Operating temperature range: -40℃ to 75℃.

Overview:

The Linkvue LV-IES0008G is an unmanaged industrial-grade Ethernet switch with 8-port 10/100/1000Base-TX RJ45. It boasts features like port isolation, flow control, QoS, and broadcast storm restraint, all configurable via the DIP switch on the top panel.

The LV-IES0008G series offers a cost-effective and user-friendly solution, delivering vital industrial Ethernet networking functions. This includes a wide power input range of 12-58VDC, redundant power design with safeguards against polarity reversal and over-voltage, a sturdy fan-less IP40 compact housing suitable for DIN-Rail installation. It operates effectively in a wide temperature range from -40℃ to 75℃ and excels in high-level EMI/EMC performance. These switches are designed for challenging environments such as heavy industrial factories, transportation, oil & gas facilities, chemicals, IP surveillance, and process automation, these switches exceed standard commercial product specifications.

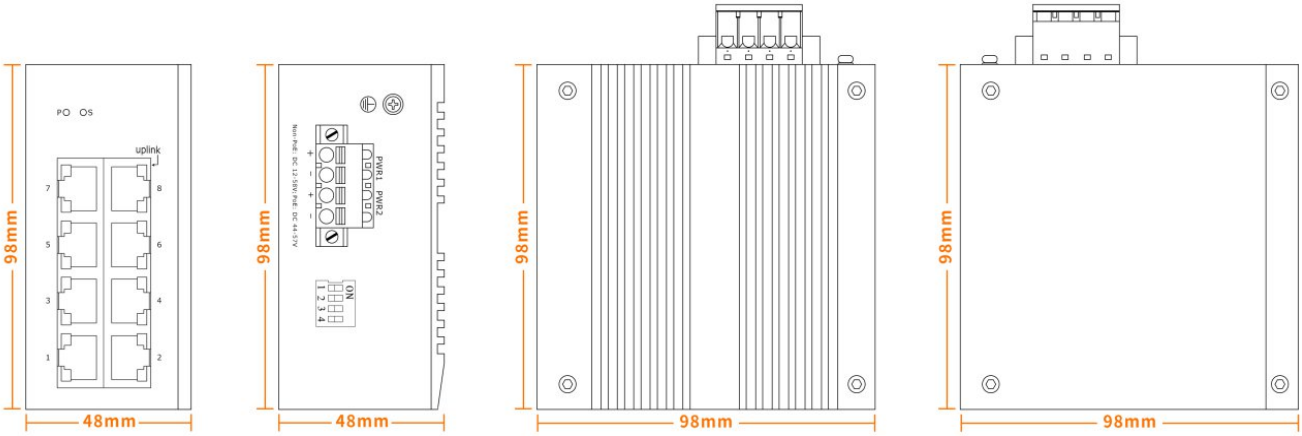
Technical Specification:

<table>
<tr><td rowspan="3">Interface</td><td>Fiber port</td><td>Ethernet (RJ45) port</td></tr>
<tr><td>0</td><td>8</td></tr>
<tr><td colspan="2">8*10/100/1000Base-TX RJ45 ports</td></tr>
<tr><td>Standard</td><td colspan="2">IEEE 802.3 10Base-T Ethernet
IEEE 802.3u Fast Ethernet
IEEE 802.3ab Gigabit Ethernet
IEEE 802.3x Full-Duplex Flow Control
IEEE 802.3az Energy Efficient Ethernet</td></tr>
<tr><td>DIP Switch</td><td colspan="2">1). Port isolation
2). Flow control
3). Quality of Service (QoS)
4). Broadcast storm restraint</td></tr>
<tr><td>LED Indicator</td><td>P (Power Indicator)
Green</td><td>Off: Device power is off or a failure has occurred</td></tr>
</table>

<table>
<tr><td rowspan="6"></td><td></td><td colspan="2">On: Device power is normal</td></tr>
<tr><td rowspan="2">S (System Indicator) Red</td><td colspan="2">Off: Chip operation is normal</td></tr>
<tr><td colspan="2">On: Chip read/write operations are abnormal</td></tr>
<tr><td rowspan="4">1-8 (RJ45 Port)</td><td>Green Indicator</td><td>Yellow Indicator</td></tr>
<tr><td>Off: Port link is inactive</td><td>Off: Port speed is 10/100M</td></tr>
<tr><td>On: Port link is active</td><td rowspan="2">On: Port speed is 1000M</td></tr>
<tr><td>Blinking: Data transmission on TX/RX</td></tr>
<tr><td colspan="3">Power Parameter</td></tr>
<tr><td>Input voltage</td><td colspan="2">12-58VDC (redundant power input)</td></tr>
<tr><td>Input current</td><td colspan="2">0.6A Max</td></tr>
<tr><td>Total power consumption</td><td colspan="2">Full load ≤5W</td></tr>
<tr><td>Connector</td><td colspan="2">Removable 4-pin terminal block</td></tr>
<tr><td>Reverse polarity protection</td><td colspan="2">Supported</td></tr>
<tr><td>Over-voltage protection</td><td colspan="2">Supported</td></tr>
<tr><td colspan="3">Switching Feature</td></tr>
<tr><td>Switching capacity</td><td colspan="2">16.0 Gbps</td></tr>
<tr><td>Packet forwarding rate</td><td colspan="2">23.8 Mpps</td></tr>
<tr><td>MAC address table</td><td colspan="2">16K</td></tr>
<tr><td>VLAN</td><td colspan="2">4K</td></tr>
<tr><td>Buffer</td><td colspan="2">2M</td></tr>
<tr><td>Forwarding delay</td><td colspan="2"><10us</td></tr>
<tr><td>Jumbo frame</td><td colspan="2">10K bytes</td></tr>
<tr><td>MDX/MIDX</td><td colspan="2">Supported</td></tr>
<tr><td>Watchdog</td><td colspan="2">Supported</td></tr>
<tr><td colspan="3">Network Topology</td></tr>
<tr><td>Star topology</td><td colspan="2">Supported</td></tr>
<tr><td>Bus topology</td><td colspan="2">Supported</td></tr>
<tr><td>Tree topology</td><td colspan="2">Supported</td></tr>
<tr><td colspan="3">Mechanical Structure</td></tr>
</table>

IP grade	IP40
Installation method	DIN-Rail
Dimension (W*D*H)	48*98*98 mm
Weight	0.6 kg
Operating Environment	Operating temperature: -40℃ to 75℃ Storage temperature: -40℃ to 85℃ Relative humidity: 5% to 95% (non-condensing)
Industrial Standard	Surge protection of power: IEC 61000-4-5 Level 3 (4kV/2kV, 8/20us) Surge protection of Ethernet port: IEC 61000-4-5 Level 3 (4kV/2kV, 10/700us) DIP: IEC 61000-4-11 Level 3 (10V) ESD: IEC 61000-4-2 Level 4 (8kV/15kV) Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Certification	CE, FCC, RoHS
Warranty	5 years

Structure Diagram:



Order Information:

Model No.	Description

E-mail: technical@linkvuesystem.com https://www.linkvuesystem.com

LV-IES0008G	Unmanaged industrial Ethernet switch, 8*10/100/1000Base-TX RJ45 ports, DIN-Rail, 12-58VDC, -40 to 75°C operating temperature

LV-IES0016G Series

16*10/100/1000Base-TX Unmanaged Industrial Ethernet Switch

Features:

- 16*10/100/1000Base-TX RJ45 ports.
- Supports 12-58VDC input, redundant power supply with reverse polarity and over-voltage protection.
- Equipped with a single output relay alarm (terminal block pins 5/6) to indicate DC power failure.

➢DIP switch functions: 1). Port isolation, 2). Flow control, 3). Quality of Service (QoS), 4). Broadcast storm restraint.

➢Supports jumbo frames up to 10K bytes in size.

➢IP40-rated fan-less aluminum alloy housing with DIN-Rail hardware design.

➢Operating temperature range: -40℃ to 75℃.

Overview:

The Linkvue LV-IES0016G is an unmanaged industrial-grade Ethernet switch with 16-port 10/100/1000Base-TX RJ45. It boasts features like port isolation, flow control, QoS, and broadcast storm restraint, all configurable via the DIP switch on the top panel.

The LV-IES0016G series offers a cost-effective and user-friendly solution, delivering vital industrial Ethernet networking functions. This includes a wide power input range of 12-58VDC, redundant power design with safeguards against polarity reversal and over-voltage, a sturdy fan-less IP40 compact housing suitable for DIN-Rail installation. It operates effectively in a wide temperature range from -40℃ to 75℃ and excels in high-level EMI/EMC performance. These switches are designed for challenging environments such as heavy industrial factories, transportation, oil & gas facilities, chemicals, IP surveillance, and process automation, these switches exceed standard commercial product specifications.

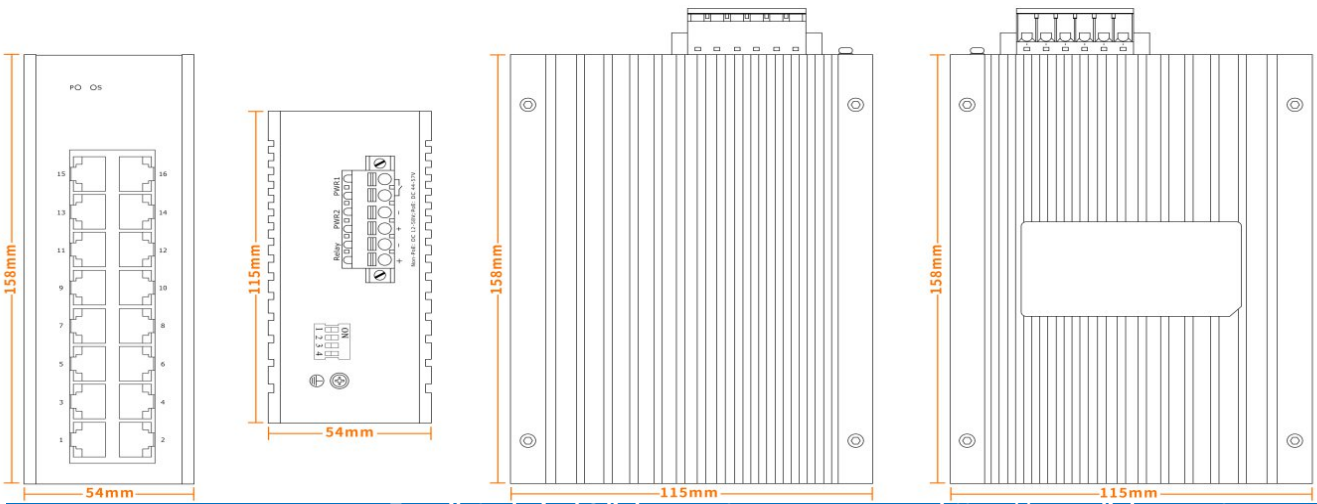
Technical Specification:

Interface	Fiber port	Ethernet (RJ45) port
	0	16
	16*10/100/1000Base-TX RJ45 ports	
Alarm Port	A single relay output is provided for power failure indication, the alarm relay can handle a current of 1A @ 24VDC	
Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3ab Gigabit Ethernet IEEE 802.3x Full-Duplex Flow Control IEEE 802.3az Energy Efficient Ethernet	

<table>
<tr><td>DIP Switch</td><td colspan="3">1). Port isolation
2). Flow control
3). Quality of Service (QoS)
4). Broadcast storm restraint</td></tr>
<tr><td rowspan="7">LED Indicator</td><td rowspan="2">P (Power Indicator)
Green</td><td colspan="2">Off: Device power is off or a failure has occurred</td></tr>
<tr><td colspan="2">On: Device power is normal</td></tr>
<tr><td rowspan="2">S (System Indicator)
Red</td><td colspan="2">Off: Chip operation is normal</td></tr>
<tr><td colspan="2">On: Chip read/write operations are abnormal</td></tr>
<tr><td rowspan="4">1-16 (RJ45 Port)</td><td>Green Indicator</td><td>Yellow Indicator</td></tr>
<tr><td>Off: Port link is inactive</td><td>Off: Port speed is 10/100M</td></tr>
<tr><td>On: Port link is active</td><td rowspan="2">On: Port speed is 1000M</td></tr>
<tr><td>Blinking: Data transmission on TX/RX</td></tr>
<tr><td colspan="4">Power Parameter</td></tr>
<tr><td>Input voltage</td><td colspan="3">12-58VDC (redundant power input)</td></tr>
<tr><td>Input current</td><td colspan="3">0.6A Max</td></tr>
<tr><td>Total power consumption</td><td colspan="3">Full load ≤8W</td></tr>
<tr><td>Connector</td><td colspan="3">Removable 6-pin terminal block with Pin 5-6 for relay alarm output</td></tr>
<tr><td>Reverse polarity protection</td><td colspan="3">Supported</td></tr>
<tr><td>Over-voltage protection</td><td colspan="3">Supported</td></tr>
<tr><td>Over-current protection</td><td colspan="3">Supported</td></tr>
<tr><td colspan="4">Switching Feature</td></tr>
<tr><td>Switching capacity</td><td colspan="3">32.0 Gbps</td></tr>
<tr><td>Packet forwarding rate</td><td colspan="3">47.6 Mpps</td></tr>
<tr><td>MAC address table</td><td colspan="3">8K</td></tr>
<tr><td>VLAN</td><td colspan="3">4K</td></tr>
<tr><td>Buffer</td><td colspan="3">2M</td></tr>
<tr><td>Forwarding delay</td><td colspan="3"><10us</td></tr>
<tr><td>Jumbo frame</td><td colspan="3">10K bytes</td></tr>
<tr><td>MDX/MIDX</td><td colspan="3">Supported</td></tr>
<tr><td>Watchdog</td><td colspan="3">Supported</td></tr>
<tr><td colspan="4">Network Topology</td></tr>
</table>

Star topology	Supported
Bus topology	Supported
Tree topology	Supported
Mechanical Structure	
IP grade	IP40
Installation method	DIN-Rail
Dimension (W*D*H)	54*115*158 mm
Weight	1.35 kg
Operating Environment	Operating temperature: -40℃ to 75℃ Storage temperature: -40℃ to 85℃ Relative humidity: 5% to 95% (non-condensing)
Industrial Standard	EMI: FCC Part 15B Class A Surge protection of power: IEC 61000-4-5 6kV/4kV (8/20us) Surge protection of Ethernet port: IEC 61000-4-5 6kV/2kV (10/700us) RS: IEC 61000-4-3 80 MHz-1 GHz: 10V/m EFT: IEC 61000-4-4, power interface: 4kV, Ethernet port: 2kV CS: IEC 61000-4-6 10V ESD: IEC 61000-4-2 Level 4 (8kV/15kV) Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Certification	CE, FCC, RoHS
Warranty	5 years

Structure Diagram:



Order Information:

Model No.	Description
LV-IES0016G	Unmanaged industrial Ethernet switch, 16*10/100/1000Base-TX RJ45 ports, DIN-Rail, 12-58VDC, -40 to 75°C operating temperature

LV-IES0104G Series

4*10/100/1000Base-TX to 1*1000Base-FX Unmanaged Industrial Ethernet Switch

Features:

- 4*10/100/1000Base-TX RJ45 ports.
- 1*1000Base-FX SC/SFP fiber port (FC or ST optional).
- Supports 12-58VDC input, redundant power supply with reverse polarity and over-voltage protection.

➢DIP switch functions: 1). Port isolation, 2). Flow control, 3). Quality of Service (QoS), 4). Broadcast storm restraint.

➢Supports jumbo frames up to 10K bytes in size.

➢IP40-rated fan-less aluminum alloy housing with DIN-Rail hardware design.

➢Operating temperature range: -40℃ to 75℃.

Overview:

The Linkvue LV-IES0104G is an unmanaged industrial-grade Ethernet switch with 4-port 10/100/1000Base-TX RJ45 and 1-port 1000Base-FX SC/SFP (FC or ST optional) fiber optic interface. It boasts features like port isolation, flow control, QoS, and broadcast storm restraint, all configurable via the DIP switch on the top panel.

The LV-IES0104G series offers a cost-effective and user-friendly solution, delivering vital industrial Ethernet networking functions. This includes a wide power input range of 12-58VDC, redundant power design with safeguards against polarity reversal and over-voltage, a sturdy fan-less IP40 compact housing suitable for DIN-Rail installation. It operates effectively in a wide temperature range from -40℃ to 75℃ and excels in high-level EMI/EMC performance. These switches are designed for challenging environments such as heavy industrial factories, transportation, oil & gas facilities, chemicals, IP surveillance, and process automation, these switches exceed standard commercial product specifications.

Technical Specification:

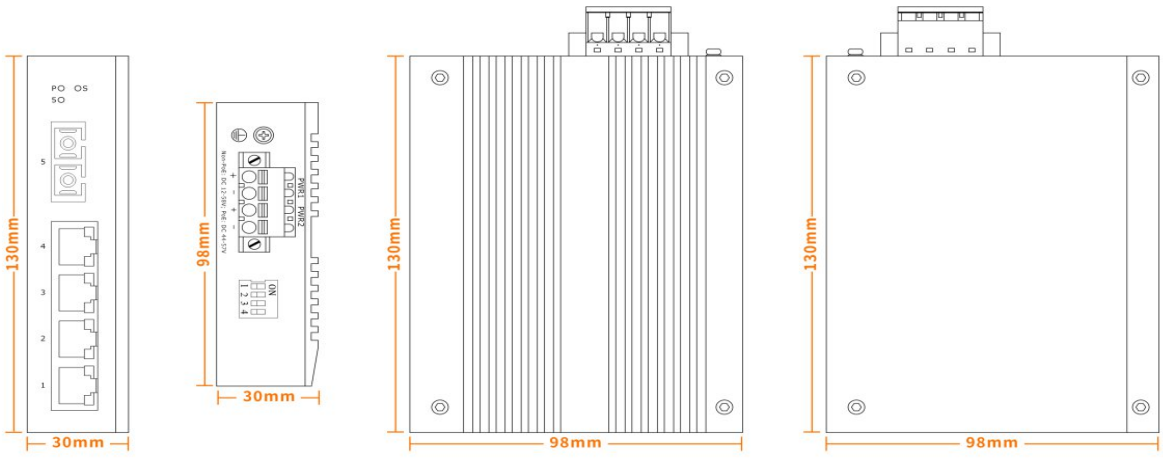
Interface	Fiber port	Ethernet (RJ45) port
	1	4
	4*10/100/1000Base-TX RJ45 ports 1*1000Base-FX SC/SFP fiber port (FC or ST optional)	
Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3ab Gigabit Ethernet IEEE 802.3x Full-Duplex Flow Control IEEE 802.3az Energy Efficient Ethernet	

<table>
<tr><td>DIP Switch</td><td colspan="3">1). Port isolation
2). Flow control
3). Quality of Service (QoS)
4). Broadcast storm restraint</td></tr>
<tr><td rowspan="8">LED Indicator</td><td rowspan="2">P (Power Indicator) Green</td><td colspan="2">Off: Device power is off or a failure has occurred</td></tr>
<tr><td colspan="2">On: Device power is normal</td></tr>
<tr><td rowspan="2">S (System Indicator) Red</td><td colspan="2">Off: Chip operation is normal</td></tr>
<tr><td colspan="2">On: Chip read/write operations are abnormal</td></tr>
<tr><td rowspan="4">1-4 (RJ45 Port)</td><td>Green Indicator</td><td>Yellow Indicator</td></tr>
<tr><td>Off: Port link is inactive</td><td>Off: Port speed is 10/100M</td></tr>
<tr><td>On: Port link is active</td><td rowspan="2">On: Port speed is 1000M</td></tr>
<tr><td>Blinking: Data transmission on TX/RX</td></tr>
<tr><td rowspan="3">5 (Fiber Port) Green</td><td colspan="2">Off: Port link is inactive</td></tr>
<tr><td colspan="2">On: Port link is active</td></tr>
<tr><td colspan="2">Blinking: Data transmission on TX/RX</td></tr>
<tr><td colspan="4">Power Parameter</td></tr>
<tr><td>Input voltage</td><td colspan="3">12-58VDC (redundant power input)</td></tr>
<tr><td>Input current</td><td colspan="3">0.5A Max</td></tr>
<tr><td>Total power consumption</td><td colspan="3">Full load ≤5W</td></tr>
<tr><td>Connector</td><td colspan="3">Removable 4-pin terminal block</td></tr>
<tr><td>Reverse polarity protection</td><td colspan="3">Supported</td></tr>
<tr><td>Over-voltage protection</td><td colspan="3">Supported</td></tr>
<tr><td colspan="4">Switching Feature</td></tr>
<tr><td>Switching capacity</td><td colspan="3">10.0 Gbps</td></tr>
<tr><td>Packet forwarding rate</td><td colspan="3">14.8 Mpps</td></tr>
<tr><td>MAC address table</td><td colspan="3">2K</td></tr>
<tr><td>VLAN</td><td colspan="3">4K</td></tr>
<tr><td>Buffer</td><td colspan="3">3M</td></tr>
<tr><td>Forwarding delay</td><td colspan="3"><10us</td></tr>
<tr><td>Jumbo frame</td><td colspan="3">10K bytes</td></tr>
</table>

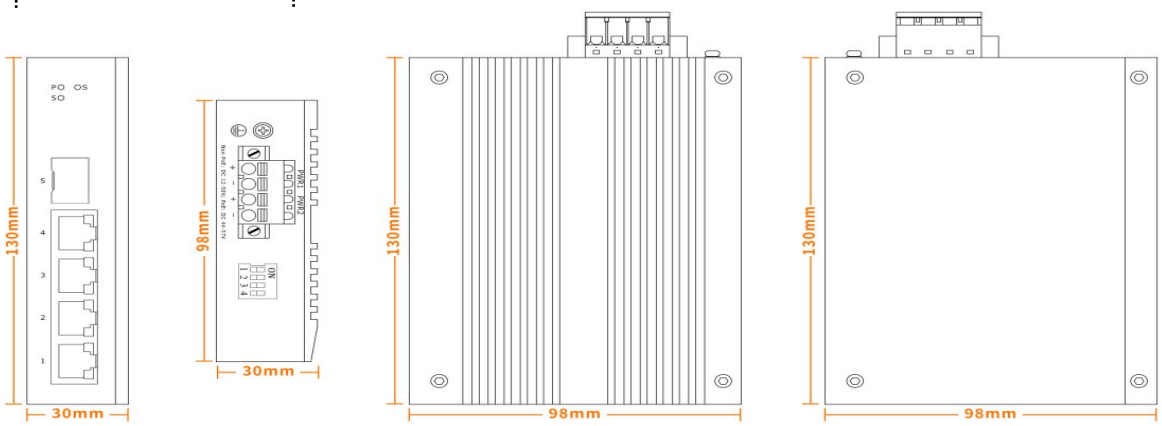
MDX/MIDX	Supported
Watchdog	Supported
Network Topology	
Star topology	Supported
Bus topology	Supported
Tree topology	Supported
Mechanical Structure	
IP grade	IP40
Installation method	DIN-Rail
Dimension (W*D*H)	30*98*130 mm
Weight	0.55 kg
Operating Environment	Operating temperature: -40℃ to 75℃ Storage temperature: -40℃ to 85℃ Relative humidity: 5% to 95% (non-condensing)
Industrial Standard	Surge protection of power: IEC 61000-4-5 Level 3 (4kV/2kV, 8/20us) Surge protection of Ethernet port: IEC 61000-4-5 Level 3 (4kV/2kV, 10/700us) DIP: IEC 61000-4-11 Level 3 (10V) ESD: IEC 61000-4-2 Level 4 (8kV/15kV) Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Certification	CE, FCC, RoHS
Warranty	5 years

Structure Diagram:

SC/FC/ST Interface



SFP Interface



LV-IES0105G Series

4*10/100/1000Base-TX to 1*1000Base-X and 1*10/100/1000Base-TX Industrial Ethernet Switch

Order Information:

Model No.	Description
LV-IES0104G-SFP	Unmanaged industrial Ethernet switch, 4*10/100/1000Base-TX RJ45 ports and 1*1000Base-X SFP slot, DIN-Rail, 12-58VDC, -40℃ to 75℃ operating temperature (The transmission distance of the fiber port depends on the SFP transceiver)
LV-IES0104G-SC	Unmanaged industrial Ethernet switch, 4*10/100/1000Base-TX RJ45 ports and 1*1000Base-FX SC port, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 550m, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40℃ to 75℃ operating temperature
LV-IES0104G-FC	Unmanaged industrial Ethernet switch, 4*10/100/1000Base-TX RJ45 ports and 1*1000Base-FX FC port, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 550m, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40℃ to 75℃ operating temperature
LV-IES0104G-ST	Unmanaged industrial Ethernet switch, 4*10/100/1000Base-TX RJ45 ports and 1*1000Base-FX ST port, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 550m, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40℃ to 75℃ operating temperature

Features:

➢4*10/100/1000Base-TX RJ45 ports.

➢1*1000Base-X SFP slot and 1*10/100/1000Base-TX RJ45 port.

➢Supports 12-58VDC input, redundant power supply with reverse polarity and over-voltage protection.

➢DIP switch functions: 1). Port isolation, 2). Flow control, 3). Quality of Service (QoS), 4). Broadcast storm restraint.

➢Supports jumbo frames up to 10K bytes in size.

➢IP40-rated fan-less aluminum alloy housing with DIN-Rail hardware design.

➢Operating temperature range: -40℃ to 75℃.

Overview:

The Linkvue LV-IES0105G is an unmanaged industrial-grade Ethernet switch with 4-port 10/100/1000Base-TX RJ45, 1-port 1000Base-X SFP slot and 1-port 10/100/1000Base-TX RJ45. It boasts features like port isolation, flow control, QoS, and broadcast storm restraint, all configurable via the DIP switch on the top panel.

The LV-IES0105G series offers a cost-effective and user-friendly solution, delivering vital industrial Ethernet networking functions. This includes a wide power input range of 12-58VDC, redundant power design with safeguards against polarity reversal and over-voltage, a sturdy fan-less IP40 compact housing suitable for DIN-Rail installation. It operates effectively in a wide temperature range from -40℃ to 75℃ and excels in high-level EMI/EMC performance. These switches are designed for challenging environments such as heavy industrial factories, transportation, oil & gas facilities, chemicals, IP surveillance, and process automation, these switches exceed standard commercial product specifications.

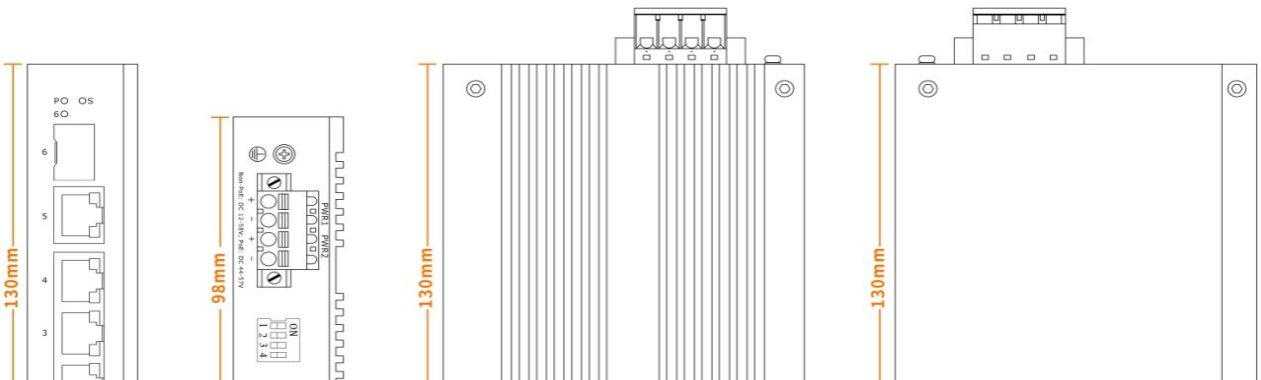
Technical Specification:

Interface	Fiber port	Ethernet (RJ45) port
	1	5
	4*10/100/1000Base-TX RJ45 ports 1*1000Base-X SFP slot and 1*10/100/1000Base-TX RJ45 port	

<table>
<tr><td>Standard</td><td colspan="3">IEEE 802.3 10Base-T Ethernet
IEEE 802.3u Fast Ethernet
IEEE 802.3ab Gigabit Ethernet
IEEE 802.3x Full-Duplex Flow Control
IEEE 802.3az Energy Efficient Ethernet</td></tr>
<tr><td>DIP Switch</td><td colspan="3">1). Port isolation
2). Flow control
3). Quality of Service (QoS)
4). Broadcast storm restraint</td></tr>
<tr><td rowspan="8">LED Indicator</td><td rowspan="2">P (Power Indicator) Green</td><td colspan="2">Off: Device power is off or a failure has occurred</td></tr>
<tr><td colspan="2">On: Device power is normal</td></tr>
<tr><td rowspan="2">S (System Indicator) Red</td><td colspan="2">Off: Chip operation is normal</td></tr>
<tr><td colspan="2">On: Chip read/write operations are abnormal</td></tr>
<tr><td rowspan="4">1-5 (RJ45 Port)</td><td>Green Indicator</td><td>Yellow Indicator</td></tr>
<tr><td>Off: Port link is inactive</td><td>Off: Port speed is 10/100M</td></tr>
<tr><td>On: Port link is active</td><td rowspan="2">On: Port speed is 1000M</td></tr>
<tr><td>Blinking: Data transmission on TX/RX</td></tr>
<tr><td rowspan="3">6 (Fiber Port) Green</td><td colspan="2">Off: Port link is inactive</td></tr>
<tr><td colspan="2">On: Port link is active</td></tr>
<tr><td colspan="2">Blinking: Data transmission on TX/RX</td></tr>
<tr><td colspan="4">Power Parameter</td></tr>
<tr><td>Input voltage</td><td colspan="3">12-58VDC (redundant power input)</td></tr>
<tr><td>Input current</td><td colspan="3">0.5A Max</td></tr>
<tr><td>Total power consumption</td><td colspan="3">Full load ≤5W</td></tr>
<tr><td>Connector</td><td colspan="3">Removable 4-pin terminal block</td></tr>
<tr><td>Reverse polarity protection</td><td colspan="3">Supported</td></tr>
<tr><td>Over-voltage protection</td><td colspan="3">Supported</td></tr>
<tr><td colspan="4">Switching Feature</td></tr>
<tr><td>Switching capacity</td><td colspan="3">12.0 Gbps</td></tr>
<tr><td>Packet forwarding rate</td><td colspan="3">17.8 Mpps</td></tr>
<tr><td>MAC address table</td><td colspan="3">2K</td></tr>
</table>

VLAN	4K
Buffer	3M
Forwarding delay	<10us
Jumbo frame	10K bytes
MDX/MIDX	Supported
Watchdog	Supported
Network Topology	
Star topology	Supported
Bus topology	Supported
Tree topology	Supported
Mechanical Structure	
IP grade	IP40
Installation method	DIN-Rail
Dimension (W*D*H)	30*98*130 mm
Weight	0.55 kg
Operating Environment	Operating temperature: -40℃ to 75℃ Storage temperature: -40℃ to 85℃ Relative humidity: 5% to 95% (non-condensing)
Industrial Standard	Surge protection of power: IEC 61000-4-5 Level 3 (4kV/2kV, 8/20us) Surge protection of Ethernet port: IEC 61000-4-5 Level 3 (4kV/2kV, 10/700us) DIP: IEC 61000-4-11 Level 3 (10V) ESD: IEC 61000-4-2 Level 4 (8kV/15kV) Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Certification	CE, FCC, RoHS
Warranty	5 years

Structure Diagram:



Order Information:

Model No.	Description
LV-IES0105G	Unmanaged industrial Ethernet switch, 4*10/100/1000Base-TX RJ45 ports, 1*1000Base-X SFP slot and 1*10/100/1000Base-TX RJ45 port, DIN-Rail, 12-58VDC, -40℃ to 75℃ operating temperature (The transmission distance of the fiber port depends on the SFP transceiver)

LV-IES0108G Series

8*10/100/1000Base-TX to 1*1000Base-FX Unmanaged Industrial Ethernet Switch

Features:

- 8*10/100/1000Base-TX RJ45 ports.
- 1*1000Base-FX SC/SFP fiber port (FC or ST optional).
- Supports 12-58VDC input, redundant power supply with reverse polarity and over-voltage protection.
- DIP switch functions: 1). Port isolation, 2). Flow control, 3). Quality of Service (QoS), 4). Broadcast storm restraint.
- Supports jumbo frames up to 10K bytes in size.
- IP40-rated fan-less aluminum alloy housing with DIN-Rail hardware design.
- Operating temperature range: -40℃ to 75℃.

Overview:

The Linkvue LV-IES0108G is an unmanaged industrial-grade Ethernet switch with 8-port 10/100/1000Base-TX RJ45 and 1-port 1000Base-FX SC/SFP (FC or ST optional) fiber optic interface. It boasts features like port isolation, flow control, QoS, and broadcast storm restraint, all configurable via the DIP switch on the top panel.

The LV-IES0108G series offers a cost-effective and user-friendly solution, delivering vital industrial Ethernet networking functions. This includes a wide power input range of 12-58VDC, redundant power design with safeguards against polarity reversal and over-voltage, a sturdy fan-less IP40 compact housing suitable for DIN-Rail installation. It operates effectively in a wide temperature range from -40℃ to 75℃ and excels in high-level EMI/EMC performance. These switches are designed for challenging environments such as heavy industrial factories, transportation, oil & gas facilities, chemicals, IP surveillance, and process automation, these switches exceed standard commercial product specifications.

Technical Specification:

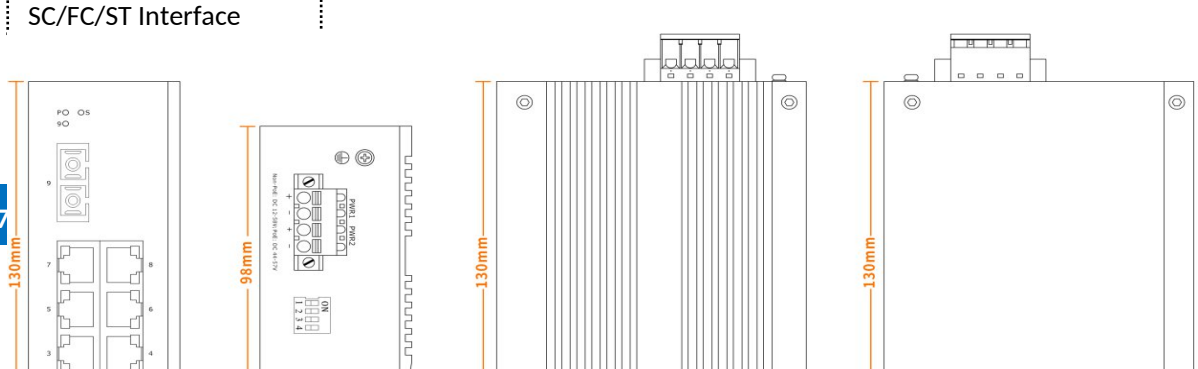
Interface	Fiber port	Ethernet (RJ45) port
	1	8
	8*10/100/1000Base-TX RJ45 ports 1*1000Base-FX SC/SFP fiber port (FC or ST optional)	

<table>
<tr><td>Standard</td><td colspan="3">IEEE 802.3 10Base-T Ethernet
IEEE 802.3u Fast Ethernet
IEEE 802.3ab Gigabit Ethernet
IEEE 802.3x Full-Duplex Flow Control
IEEE 802.3az Energy Efficient Ethernet</td></tr>
<tr><td>DIP Switch</td><td colspan="3">1). Port isolation
2). Flow control
3). Quality of Service (QoS)
4). Broadcast storm restraint</td></tr>
<tr><td rowspan="8">LED Indicator</td><td rowspan="2">P (Power Indicator) Green</td><td colspan="2">Off: Device power is off or a failure has occurred</td></tr>
<tr><td colspan="2">On: Device power is normal</td></tr>
<tr><td rowspan="2">S (System Indicator) Red</td><td colspan="2">Off: Chip operation is normal</td></tr>
<tr><td colspan="2">On: Chip read/write operations are abnormal</td></tr>
<tr><td rowspan="4">1-8 (RJ45 Port)</td><td>Green Indicator</td><td>Yellow Indicator</td></tr>
<tr><td>Off: Port link is inactive</td><td>Off: Port speed is 10/100M</td></tr>
<tr><td>On: Port link is active</td><td rowspan="2">On: Port speed is 1000M</td></tr>
<tr><td>Blinking: Data transmission on TX/RX</td></tr>
<tr><td rowspan="3">9 (Fiber Port) Green</td><td colspan="2">Off: Port link is inactive</td></tr>
<tr><td colspan="2">On: Port link is active</td></tr>
<tr><td colspan="2">Blinking: Data transmission on TX/RX</td></tr>
<tr><td colspan="4">Power Parameter</td></tr>
<tr><td>Input voltage</td><td colspan="3">12-58VDC (redundant power input)</td></tr>
<tr><td>Input current</td><td colspan="3">0.5A Max</td></tr>
<tr><td>Total power consumption</td><td colspan="3">Full load ≤6.5W</td></tr>
<tr><td>Connector</td><td colspan="3">Removable 4-pin terminal block</td></tr>
<tr><td>Reverse polarity protection</td><td colspan="3">Supported</td></tr>
<tr><td>Over-voltage protection</td><td colspan="3">Supported</td></tr>
<tr><td colspan="4">Switching Feature</td></tr>
<tr><td>Switching capacity</td><td colspan="3">18.0 Gbps</td></tr>
<tr><td>Packet forwarding rate</td><td colspan="3">26.7 Mpps</td></tr>
<tr><td>MAC address table</td><td colspan="3">8K</td></tr>
</table>

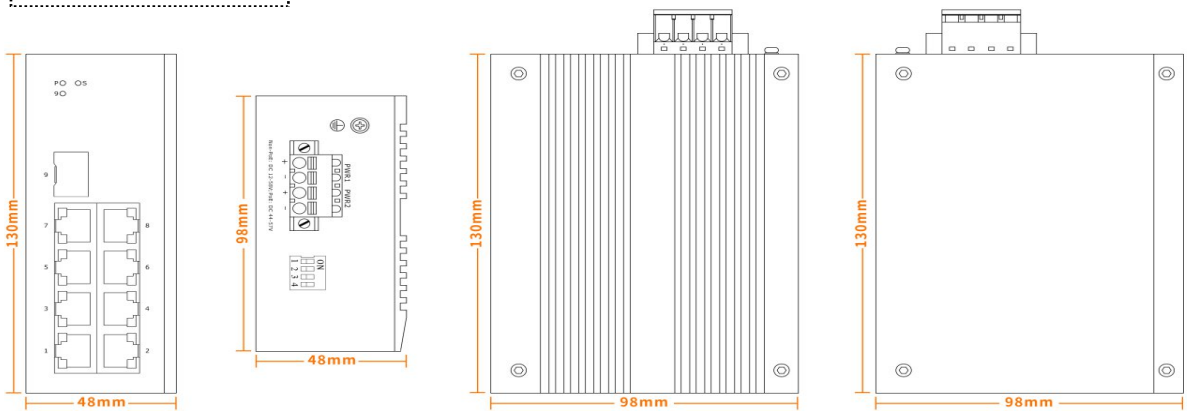
VLAN	4K
Buffer	2M
Forwarding delay	<10us
Jumbo frame	10K bytes
MDX/MIDX	Supported
Watchdog	Supported
Network Topology	
Star topology	Supported
Bus topology	Supported
Tree topology	Supported
Mechanical Structure	
IP grade	IP40
Installation method	DIN-Rail
Dimension (W*D*H)	48*98*130 mm
Weight	0.7 kg
Operating Environment	Operating temperature: -40℃ to 75℃ Storage temperature: -40℃ to 85℃ Relative humidity: 5% to 95% (non-condensing)
Industrial Standard	Surge protection of power: IEC 61000-4-5 Level 3 (4kV/2kV, 8/20us) Surge protection of Ethernet port: IEC 61000-4-5 Level 3 (4kV/2kV, 10/700us) DIP: IEC 61000-4-11 Level 3 (10V) ESD: IEC 61000-4-2 Level 4 (8kV/15kV) Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Certification	CE, FCC, RoHS
Warranty	5 years

Structure Diagram:

SC/FC/ST Interface



SFP Interface



LV-IES0204G Series

4*10/100/1000Base-TX to 2*1000Base-X Unmanaged Industrial Ethernet Switch

Order Information:

Model No.	Description
LV-IES0108G-SFP	Unmanaged industrial Ethernet switch, 8*10/100/1000Base-TX RJ45 ports and 1*1000Base-X SFP slot, DIN-Rail, 12-58VDC, -40℃ to 75℃ operating temperature (The transmission distance of the fiber port depends on the SFP transceiver)
LV-IES0108G-SC	Unmanaged industrial Ethernet switch, 8*10/100/1000Base-TX RJ45 ports and 1*1000Base-FX SC port, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 550m, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40℃ to 75℃ operating temperature
LV-IES0108G-FC	Unmanaged industrial Ethernet switch, 8*10/100/1000Base-TX RJ45 ports and 1*1000Base-FX FC port, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 550m, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40℃ to 75℃ operating temperature
LV-IES0108G-ST	Unmanaged industrial Ethernet switch, 8*10/100/1000Base-TX RJ45 ports and 1*1000Base-FX ST port, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 550m, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40℃ to 75℃ operating temperature

Features:

- 4*10/100/1000Base-TX RJ45 ports.
- 2*1000Base-X SFP slots.
- Supports 12-58VDC input, redundant power supply with reverse polarity and over-voltage protection.
- DIP switch functions: 1). Port isolation, 2). Flow control, 3). Quality of Service (QoS), 4). Broadcast storm restraint.
- Supports jumbo frames up to 10K bytes in size.
- IP40-rated fan-less aluminum alloy housing with DIN-Rail hardware design.
- Operating temperature range: -40℃ to 75℃.

Overview:

The Linkvue LV-IES0204G is an unmanaged industrial-grade Ethernet switch with 4-port 10/100/1000Base-TX RJ45 and 2-port 1000Base-X SFP slot. It boasts features like port isolation, flow control, QoS, and broadcast storm restraint, all configurable via the DIP switch on the top panel.

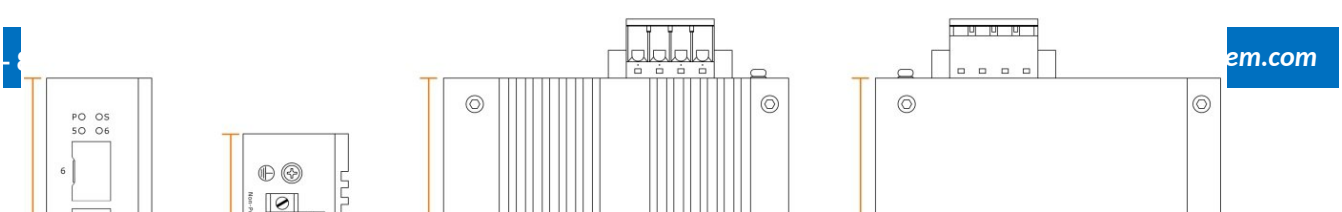
The LV-IES0204G series offers a cost-effective and user-friendly solution, delivering vital industrial Ethernet networking functions. This includes a wide power input range of 12-58VDC, redundant power design with safeguards against polarity reversal and over-voltage, a sturdy fan-less IP40 compact housing suitable for DIN-Rail installation. It operates effectively in a wide temperature range from -40℃ to 75℃ and excels in high-level EMI/EMC performance. These switches are designed for challenging environments such as heavy industrial factories, transportation, oil & gas facilities, chemicals, IP surveillance, and process automation, these switches exceed standard commercial product specifications.

Technical Specification:

<table>
<tr><td rowspan="3">Interface</td><td colspan="2">Fiber port</td><td>Ethernet (RJ45) port</td></tr>
<tr><td colspan="2">2</td><td>4</td></tr>
<tr><td colspan="3">4*10/100/1000Base-TX RJ45 ports
2*1000Base-X SFP slots</td></tr>
<tr><td>Standard</td><td colspan="3">IEEE 802.3 10Base-T Ethernet
IEEE 802.3u Fast Ethernet
IEEE 802.3ab Gigabit Ethernet
IEEE 802.3x Full-Duplex Flow Control
IEEE 802.3az Energy Efficient Ethernet</td></tr>
<tr><td>DIP Switch</td><td colspan="3">1). Port isolation
2). Flow control
3). Quality of Service (QoS)
4). Broadcast storm restraint</td></tr>
<tr><td rowspan="8">LED Indicator</td><td rowspan="2">P (Power Indicator) Green</td><td colspan="2">Off: Device power is off or a failure has occurred</td></tr>
<tr><td colspan="2">On: Device power is normal</td></tr>
<tr><td rowspan="2">S (System Indicator) Red</td><td colspan="2">Off: Chip operation is normal</td></tr>
<tr><td colspan="2">On: Chip read/write operations are abnormal</td></tr>
<tr><td rowspan="4">1-4 (RJ45 Port)</td><td>Green Indicator</td><td>Yellow Indicator</td></tr>
<tr><td>Off: Port link is inactive</td><td>Off: Port speed is 10/100M</td></tr>
<tr><td>On: Port link is active</td><td rowspan="2">On: Port speed is 1000M</td></tr>
<tr><td>Blinking: Data transmission on TX/RX</td></tr>
<tr><td rowspan="3">5-6 (Fiber Port) Green</td><td colspan="2">Off: Port link is inactive</td></tr>
<tr><td colspan="2">On: Port link is active</td></tr>
<tr><td colspan="2">Blinking: Data transmission on TX/RX</td></tr>
<tr><td colspan="4">Power Parameter</td></tr>
<tr><td>Input voltage</td><td colspan="3">12-58VDC (redundant power input)</td></tr>
<tr><td>Input current</td><td colspan="3">0.5A Max</td></tr>
<tr><td>Total power consumption</td><td colspan="3">Full load ≤5W</td></tr>
<tr><td>Connector</td><td colspan="3">Removable 4-pin terminal block</td></tr>
<tr><td>Reverse polarity protection</td><td colspan="3">Supported</td></tr>
<tr><td>Over-voltage protection</td><td colspan="3">Supported</td></tr>
<tr><td colspan="4">Switching Feature</td></tr>
</table>

Switching capacity	12.0 Gbps
Packet forwarding rate	17.8 Mpps
MAC address table	2K
VLAN	4K
Buffer	3M
Forwarding delay	<10us
Jumbo frame	10K bytes
MDX/MIDX	Supported
Watchdog	Supported
Network Topology	
Star topology	Supported
Bus topology	Supported
Tree topology	Supported
Mechanical Structure	
IP grade	IP40
Installation method	DIN-Rail
Dimension (W*D*H)	30*98*130 mm
Weight	0.55 kg
Operating Environment	Operating temperature: -40℃ to 75℃ Storage temperature: -40℃ to 85℃ Relative humidity: 5% to 95% (non-condensing)
Industrial Standard	Surge protection of power: IEC 61000-4-5 Level 3 (4kV/2kV, 8/20us) Surge protection of Ethernet port: IEC 61000-4-5 Level 3 (4kV/2kV, 10/700us) DIP: IEC 61000-4-11 Level 3 (10V) ESD: IEC 61000-4-2 Level 4 (8kV/15kV) Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Certification	CE, FCC, RoHS
Warranty	5 years

Structure Diagram:



Order Information:

Model No.	Description
LV-IES0204G	Unmanaged industrial Ethernet switch, 4*10/100/1000Base-TX RJ45 ports and 2*1000Base-X SFP slots, DIN-Rail, 12-58VDC, -40℃ to 75℃ operating temperature (The transmission distance of the fiber port depends on the SFP transceiver)

Features:

- 8*10/100/1000Base-TX RJ45 ports.
- 2*1000Base-FX SC/SFP fiber ports (FC or ST optional).
- Supports 12-58VDC input, redundant power supply with reverse polarity and over-voltage protection.
- DIP switch functions: 1). Port isolation, 2). Flow control, 3). Quality of Service (QoS), 4). Broadcast storm restraint.
- Supports jumbo frames up to 10K bytes in size.
- IP40-rated fan-less aluminum alloy housing with DIN-Rail hardware design.
- Operating temperature range: -40℃ to 75℃.

Overview:

The Linkvue LV-IES0208G is an unmanaged industrial-grade Ethernet switch with 8-port 10/100/1000Base-TX RJ45 and 2-port 1000Base-FX SC/SFP (FC or ST optional) fiber optic interface. It boasts features like port isolation, flow control, QoS, and broadcast storm restraint, all configurable via the DIP switch on the top panel.

The LV-IES0208G series offers a cost-effective and user-friendly solution, delivering vital industrial Ethernet networking functions. This includes a wide power input range of 12-58VDC, redundant power design with safeguards against polarity reversal and over-voltage, a sturdy fan-less IP40 compact housing suitable for DIN-Rail installation. It operates effectively in a wide temperature range from -40℃ to 75℃ and excels in high-level EMI/EMC performance. These switches are designed for challenging environments such as heavy industrial factories, transportation, oil & gas facilities, chemicals, IP surveillance, and process automation, these switches exceed standard commercial product specifications.

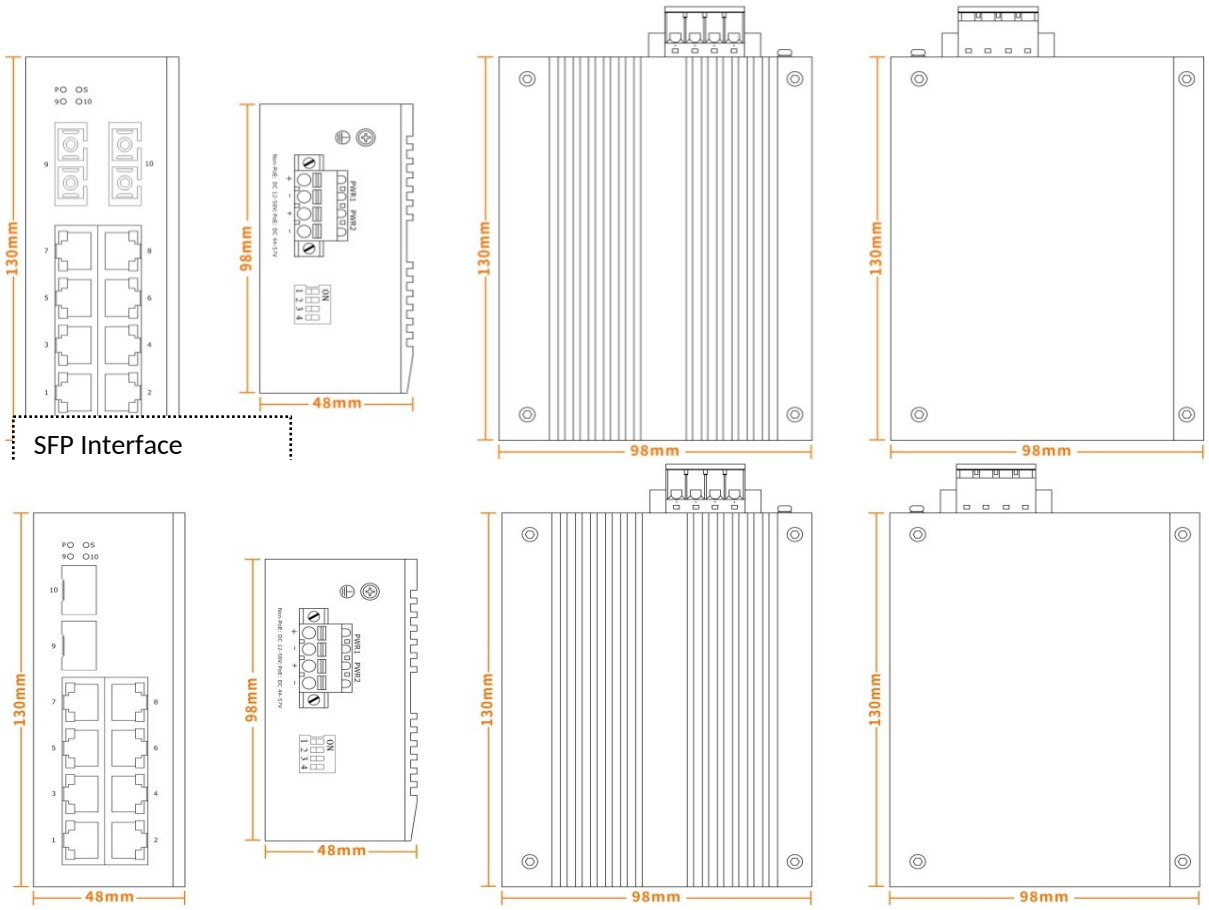
Technical Specification:

<table>
<tr><td rowspan="3">Interface</td><td colspan="2">Fiber port</td><td colspan="2">Ethernet (RJ45) port</td></tr>
<tr><td colspan="2">2</td><td colspan="2">8</td></tr>
<tr><td colspan="4">8*10/100/1000Base-TX RJ45 ports
2*1000Base-FX SC/SFP fiber ports (FC or ST optional)</td></tr>
<tr><td>Standard</td><td colspan="4">IEEE 802.3 10Base-T Ethernet
IEEE 802.3u Fast Ethernet
IEEE 802.3ab Gigabit Ethernet
IEEE 802.3x Full-Duplex Flow Control
IEEE 802.3az Energy Efficient Ethernet</td></tr>
<tr><td>DIP Switch</td><td colspan="4">1). Port isolation
2). Flow control
3). Quality of Service (QoS)
4). Broadcast storm restraint</td></tr>
<tr><td rowspan="8">LED Indicator</td><td rowspan="2">P (Power Indicator)
Green</td><td colspan="3">Off: Device power is off or a failure has occurred</td></tr>
<tr><td colspan="3">On: Device power is normal</td></tr>
<tr><td rowspan="2">S (System Indicator)
Red</td><td colspan="3">Off: Chip operation is normal</td></tr>
<tr><td colspan="3">On: Chip read/write operations are abnormal</td></tr>
<tr><td rowspan="4">1-8 (RJ45 Port)</td><td>Green Indicator</td><td>Yellow Indicator</td></tr>
<tr><td>Off: Port link is inactive</td><td>Off: Port speed is 10/100M</td></tr>
<tr><td>On: Port link is active</td><td rowspan="2">On: Port speed is 1000M</td></tr>
<tr><td>Blinking: Data transmission on TX/RX</td></tr>
<tr><td rowspan="3">9-10 (Fiber Port)
Green</td><td colspan="3">Off: Port link is inactive</td></tr>
<tr><td colspan="3">On: Port link is active</td></tr>
<tr><td colspan="3">Blinking: Data transmission on TX/RX</td></tr>
<tr><td colspan="5">Power Parameter</td></tr>
<tr><td>Input voltage</td><td colspan="4">12-58VDC (redundant power input)</td></tr>
<tr><td>Input current</td><td colspan="4">0.6A Max</td></tr>
<tr><td>Total power consumption</td><td colspan="4">Full load ≤7.5W</td></tr>
<tr><td>Connector</td><td colspan="4">Removable 4-pin terminal block</td></tr>
<tr><td>Reverse polarity protection</td><td colspan="4">Supported</td></tr>
<tr><td>Over-voltage protection</td><td colspan="4">Supported</td></tr>
<tr><td colspan="5">Switching Feature</td></tr>
</table>

Switching capacity	20.0 Gbps
Packet forwarding rate	29.7 Mpps
MAC address table	8K
VLAN	4K
Buffer	2M
Forwarding delay	<10us
Jumbo frame	10K bytes
MDX/MIDX	Supported
Watchdog	Supported
Network Topology	
Star topology	Supported
Bus topology	Supported
Tree topology	Supported
Mechanical Structure	
IP grade	IP40
Installation method	DIN-Rail
Dimension (W*D*H)	48*98*130 mm
Weight	0.7 kg
Operating Environment	Operating temperature: -40℃ to 75℃ Storage temperature: -40℃ to 85℃ Relative humidity: 5% to 95% (non-condensing)
Industrial Standard	Surge protection of power: IEC 61000-4-5 Level 3 (4kV/2kV, 8/20us) Surge protection of Ethernet port: IEC 61000-4-5 Level 3 (4kV/2kV, 10/700us) DIP: IEC 61000-4-11 Level 3 (10V) ESD: IEC 61000-4-2 Level 4 (8kV/15kV) Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Certification	CE, FCC, RoHS
Warranty	5 years

Structure Diagram:

SC/FC/ST Interface



Order Information:

Model No.	Description
LV-IES0208G-SFP	Unmanaged industrial Ethernet switch, 8*10/100/1000Base-TX RJ45 ports and 2*1000Base-X SFP slots, DIN-Rail, 12-58VDC, -40℃ to 75℃ operating temperature (The transmission distance of the fiber port depends on the SFP transceiver)
LV-IES0208G-SC	Unmanaged industrial Ethernet switch, 8*10/100/1000Base-TX RJ45 ports and 2*1000Base-FX SC ports, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 550m, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40℃ to 75℃ operating temperature
LV-IES0208G-FC	Unmanaged industrial Ethernet switch, 8*10/100/1000Base-TX RJ45 ports and 2*1000Base-FX FC ports, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 550m, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40℃ to 75℃ operating temperature
LV-IES0208G-ST	Unmanaged industrial Ethernet switch, 8*10/100/1000Base-TX RJ45 ports and 2*1000Base-FX ST ports, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 550m, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40℃ to 75℃ operating temperature

LV-IES0408G Series

8*10/100/1000Base-TX to 4*1000Base-X Unmanaged Industrial Ethernet Switch

Features:

- 8*10/100/1000Base-TX RJ45 ports.
- 4*1000Base-X SFP slots.
- Supports 12-58VDC input, redundant power supply with reverse polarity and over-voltage protection.
- Equipped with a single output relay alarm (terminal block pins 5/6) to indicate DC power failure.
- DIP switch functions: 1). Link aggregation, 2). Flow control, 3). Quality of Service (QoS), 4). Broadcast storm restraint.
- Supports jumbo frames up to 10K bytes in size.
- IP40-rated fan-less aluminum alloy housing with DIN-Rail hardware design.
- Operating temperature range: -40℃ to 75℃.

Overview:

The Linkvue LV-IES0408G is an unmanaged industrial-grade Ethernet switch with 8-port 10/100/1000Base-TX RJ45 and 4-port 1000Base-X SFP slot. It boasts features like link aggregation, flow control, QoS, and broadcast storm restraint, all configurable via the DIP switch on the top panel.

The LV-IES0408G series offers a cost-effective and user-friendly solution, delivering vital industrial Ethernet networking functions. This includes a wide power input range of 12-58VDC, redundant power design with safeguards against polarity reversal and over-voltage, a sturdy fan-less IP40 compact housing suitable for DIN-Rail installation. It operates effectively in a wide temperature range from -40℃ to 75℃ and excels in high-level EMI/EMC performance. These switches are designed for challenging environments such as heavy industrial factories, transportation, oil & gas facilities, chemicals, IP surveillance, and process automation, these switches exceed standard commercial product specifications.

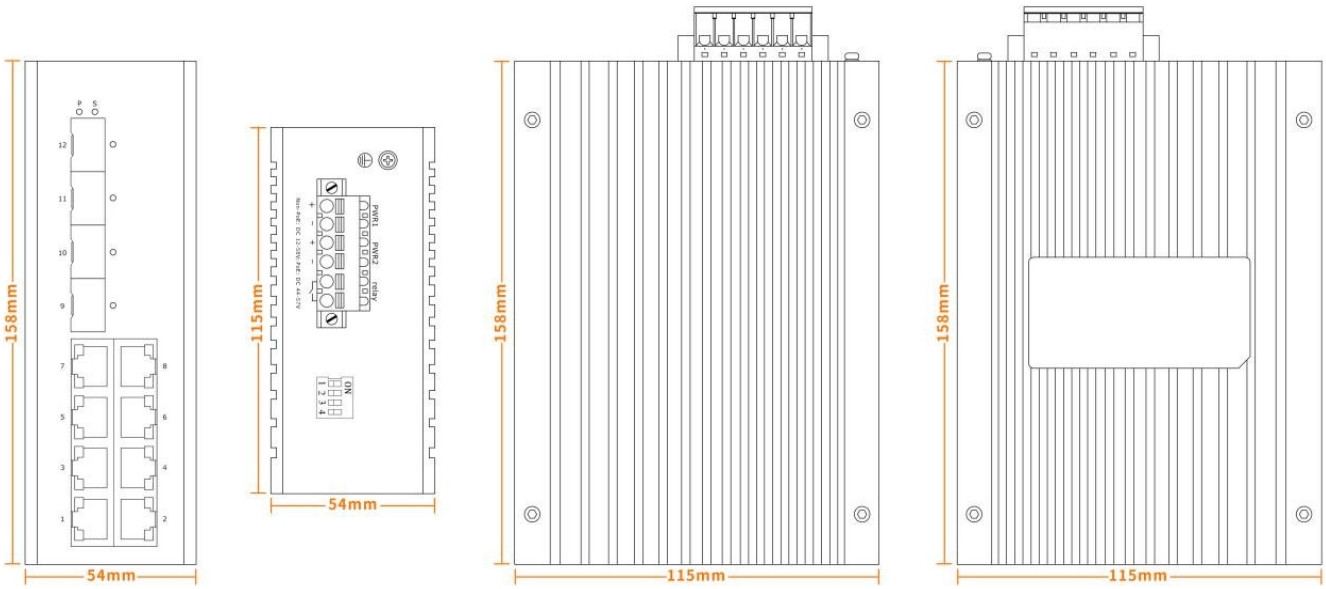
Technical Specification:

<table>
<tr><td rowspan="3">Interface</td><td colspan="2">Fiber port</td><td colspan="2">Ethernet (RJ45) port</td></tr>
<tr><td colspan="2">4</td><td colspan="2">8</td></tr>
<tr><td colspan="4">8*10/100/1000Base-TX RJ45 ports
4*1000Base-X SFP slots</td></tr>
<tr><td>Alarm Port</td><td colspan="4">A single relay output is provided for power failure indication, the alarm relay can handle a current of 1A @ 24VDC</td></tr>
<tr><td>Standard</td><td colspan="4">IEEE 802.3 10Base-T Ethernet
IEEE 802.3u Fast Ethernet
IEEE 802.3ab Gigabit Ethernet
IEEE 802.3x Full-Duplex Flow Control
IEEE 802.3az Energy Efficient Ethernet</td></tr>
<tr><td>DIP Switch</td><td colspan="4">1). Link aggregation
2). Flow control
3). Quality of Service (QoS)
4). Broadcast storm restraint</td></tr>
<tr><td rowspan="8">LED Indicator</td><td rowspan="2">P (Power Indicator) Green</td><td colspan="3">Off: Device power is off or a failure has occurred</td></tr>
<tr><td colspan="3">On: Device power is normal</td></tr>
<tr><td rowspan="2">S (System Indicator) Red</td><td colspan="3">Off: Chip operation is normal</td></tr>
<tr><td colspan="3">On: Chip read/write operations are abnormal</td></tr>
<tr><td rowspan="4">1-8 (RJ45 Port)</td><td>Green Indicator</td><td colspan="2">Yellow Indicator</td></tr>
<tr><td>Off: Port link is inactive</td><td colspan="2">Off: Port speed is 10/100M</td></tr>
<tr><td>On: Port link is active</td><td colspan="2" rowspan="2">On: Port speed is 1000M</td></tr>
<tr><td>Blinking: Data transmission on TX/RX</td></tr>
<tr><td rowspan="3">9-12 (Fiber Port) Green</td><td colspan="3">Off: Port link is inactive</td></tr>
<tr><td colspan="3">On: Port link is active</td></tr>
<tr><td colspan="3">Blinking: Data transmission on TX/RX</td></tr>
<tr><td colspan="5">Power Parameter</td></tr>
<tr><td>Input voltage</td><td colspan="4">12-58VDC (redundant power input)</td></tr>
<tr><td>Input current</td><td colspan="4">0.8A Max</td></tr>
<tr><td>Total power consumption</td><td colspan="4">Full load ≤10W</td></tr>
<tr><td>Connector</td><td colspan="4">Removable 6-pin terminal block with Pin 5-6 for relay alarm output</td></tr>
<tr><td>Reverse polarity protection</td><td colspan="4">Supported</td></tr>
</table>

Over-voltage protection	Supported
Over-current protection	Supported
Switching Feature	
Switching capacity	24.0 Gbps
Packet forwarding rate	35.7Mpps
MAC address table	8K
VLAN	4K
Buffer	2M
Forwarding delay	<10us
Jumbo frame	10K bytes
MDX/MIDX	Supported
Watchdog	Supported
Network Topology	
Star topology	Supported
Bus topology	Supported
Tree topology	Supported
Mechanical Structure	
IP grade	IP40
Installation method	DIN-Rail
Dimension (W*D*H)	54*115*158 mm
Weight	1.2 kg
Operating Environment	Operating temperature: -40℃ to 75℃ Storage temperature: -40℃ to 85℃ Relative humidity: 5% to 95% (non-condensing)
Industrial Standard	EMI: FCC Part 15B Class A Surge protection of power: IEC 61000-4-5 6kV/4kV (8/20us) Surge protection of Ethernet port: IEC 61000-4-5 6kV/2kV (10/700us) RS: IEC 61000-4-3 80 MHz-1 GHz: 10V/m EFT: IEC 61000-4-4, power interface: 4kV, Ethernet port: 2kV CS: IEC 61000-4-6 10V ESD: IEC 61000-4-2 Level 4 (8kV/15kV) Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6

Certification	CE, FCC, RoHS
Warranty	5 years

Structure Diagram:



Order Information:

Model No.	Description
LV-IES0408G	Unmanaged industrial Ethernet switch, 8*10/100/1000Base-TX RJ45 ports and 4*1000Base-X SFP slots, DIN-Rail, 12-58VDC, -40℃ to 75℃ operating temperature (The transmission distance of the fiber port depends on the SFP transceiver)

LV-IES01G08F Series

8*10/100Base-TX to 1*1000Base-FX Unmanaged Industrial Ethernet Switch

Features:

- 8*10/100Base-TX RJ45 ports.
- 1*1000Base-FX SC/SFP fiber port (FC or ST optional).
- Supports 12-58VDC input, redundant power supply with reverse polarity and over-voltage protection.
- DIP switch functions: 1). Port isolation, 2). Flow control, 3). Quality of Service (QoS), 4). Broadcast storm restraint.
- Supports jumbo frames up to 10K bytes in size.
- IP40-rated fan-less aluminum alloy housing with DIN-Rail hardware design.
- Operating temperature range: -40℃ to 75℃.

Overview:

The Linkvue LV-IES01G08F is an unmanaged industrial-grade Ethernet switch with 8-port 10/100Base-TX RJ45 and 1-port 1000Base-FX SC/SFP (FC or ST optional) fiber optic interface. It boasts features like port isolation, flow control, QoS, and broadcast storm restraint, all configurable via the DIP switch on the top panel.

The LV-IES01G08F series offers a cost-effective and user-friendly solution, delivering vital industrial Ethernet networking functions. This includes a wide power input range of 12-58VDC, redundant power design with safeguards against polarity reversal and over-voltage, a sturdy fan-less IP40 compact housing suitable for DIN-Rail installation. It operates effectively in a wide temperature range from -40℃ to 75℃ and excels in high-level EMI/EMC performance. These switches are designed for challenging environments such as heavy industrial factories, transportation, oil & gas facilities, chemicals, IP surveillance, and process automation, these switches exceed standard commercial product specifications.

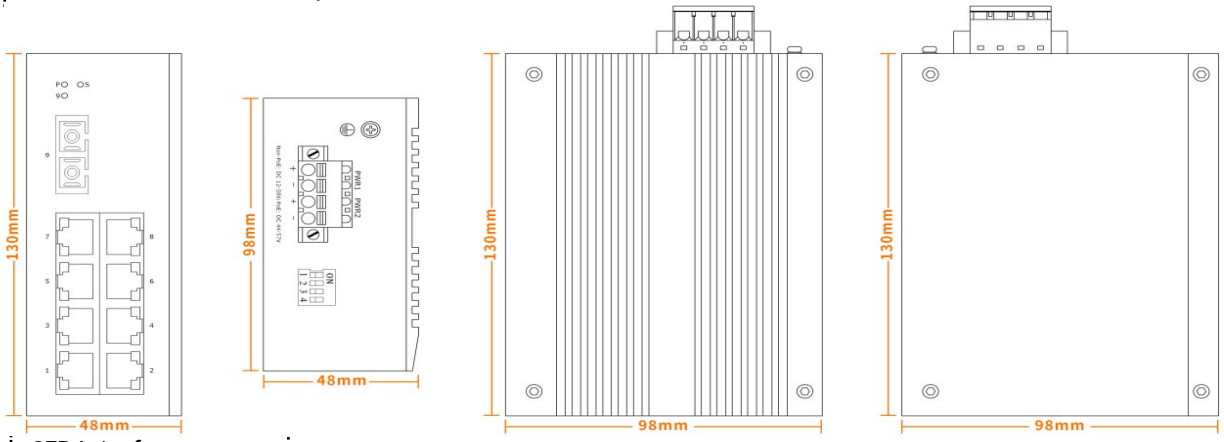
Technical Specification:

<table>
<tr><td rowspan="3">Interface</td><td colspan="2">Fiber port</td><td>Ethernet (RJ45) port</td></tr>
<tr><td colspan="2">1</td><td>8</td></tr>
<tr><td colspan="3">8*10/100Base-TX RJ45 ports
1*1000Base-FX SC/SFP fiber port (FC or ST optional)</td></tr>
<tr><td>Standard</td><td colspan="3">IEEE 802.3 10Base-T Ethernet
IEEE 802.3u Fast Ethernet
IEEE 802.3x Full-Duplex Flow Control
IEEE 802.3az Energy Efficient Ethernet</td></tr>
<tr><td>DIP Switch</td><td colspan="3">1). Port isolation
2). Flow control
3). Quality of Service (QoS)
4). Broadcast storm restraint</td></tr>
<tr><td rowspan="9">LED Indicator</td><td rowspan="2">P (Power Indicator) Green</td><td colspan="2">Off: Device power is off or a failure has occurred</td></tr>
<tr><td colspan="2">On: Device power is normal</td></tr>
<tr><td rowspan="2">S (System Indicator) Red</td><td colspan="2">Off: Chip operation is normal</td></tr>
<tr><td colspan="2">On: Chip read/write operations are abnormal</td></tr>
<tr><td rowspan="4">1-8 (RJ45 Port)</td><td>Green Indicator</td><td>Yellow Indicator</td></tr>
<tr><td>Off: Port link is inactive</td><td>Off: Port speed is 10M</td></tr>
<tr><td>On: Port link is active</td><td rowspan="2">On: Port speed is 100M</td></tr>
<tr><td>Blinking: Data transmission on TX/RX</td></tr>
<tr><td rowspan="3">9 (Fiber Port) Green</td><td colspan="2">Off: Port link is inactive</td></tr>
<tr><td colspan="2">On: Port link is active</td></tr>
<tr><td colspan="2">Blinking: Data transmission on TX/RX</td></tr>
<tr><td colspan="4">Power Parameter</td></tr>
<tr><td>Input voltage</td><td colspan="3">12-58VDC (redundant power input)</td></tr>
<tr><td>Input current</td><td colspan="3">0.5A Max</td></tr>
<tr><td>Total power consumption</td><td colspan="3">Full load ≤6.5W</td></tr>
<tr><td>Connector</td><td colspan="3">Removable 4-pin terminal block</td></tr>
<tr><td>Reverse polarity protection</td><td colspan="3">Supported</td></tr>
<tr><td>Over-voltage protection</td><td colspan="3">Supported</td></tr>
<tr><td colspan="4">Switching Feature</td></tr>
</table>

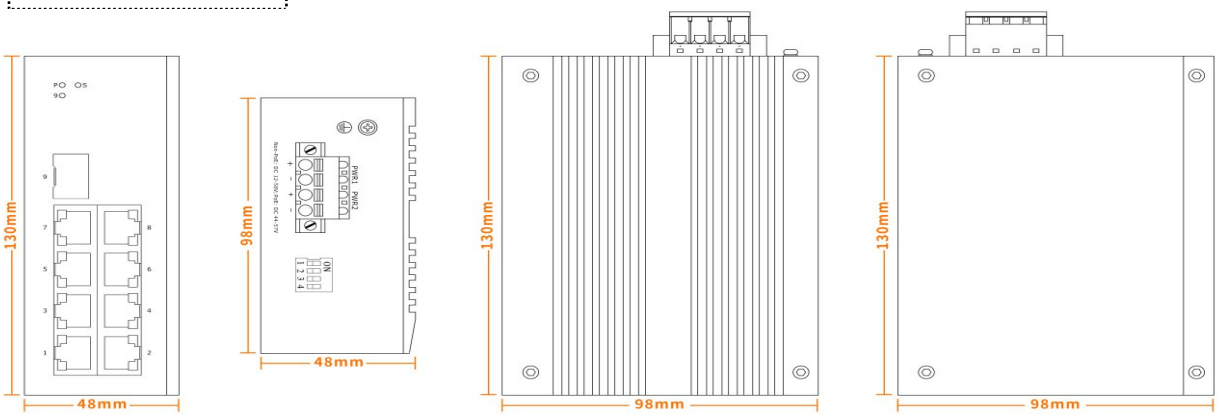
Switching capacity	1.8 Gbps
Packet forwarding rate	2.67 Mpps
MAC address table	2K
VLAN	2K
Buffer	2M
Forwarding delay	<10us
Jumbo frame	10K bytes
MDX/MIDX	Supported
Watchdog	Supported
Network Topology	
Star topology	Supported
Bus topology	Supported
Tree topology	Supported
Mechanical Structure	
IP grade	IP40
Installation method	DIN-Rail
Dimension (W*D*H)	48*98*130 mm
Weight	0.7 kg
Operating Environment	Operating temperature: -40℃ to 75℃ Storage temperature: -40℃ to 85℃ Relative humidity: 5% to 95% (non-condensing)
Industrial Standard	Surge protection of power: IEC 61000-4-5 Level 3 (4kV/2kV, 8/20us) Surge protection of Ethernet port: IEC 61000-4-5 Level 3 (4kV/2kV, 10/700us) DIP: IEC 61000-4-11 Level 3 (10V) ESD: IEC 61000-4-2 Level 4 (8kV/15kV) Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Certification	CE, FCC, RoHS
Warranty	5 years

Structure Diagram:

SC/FC/ST Interface



SFP Interface



Order Information:

Model No.	Description
LV-IES01G08F-SFP	Unmanaged industrial Ethernet switch, 8*10/100Base-TX RJ45 ports and 1*1000Base-X SFP slot, DIN-Rail, 12-58VDC, -40 to 75°C operating temperature (The transmission distance of the fiber port depends on the SFP transceiver)
LV-IES01G08F-SC	Unmanaged industrial Ethernet switch, 8*10/100Base-TX RJ45 ports and 1*1000Base-FX SC port, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 550m, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40 to 75°C operating temperature
LV-IES01G08F-FC	Unmanaged industrial Ethernet switch, 8*10/100Base-TX RJ45 ports and 1*1000Base-FX FC port, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 550m, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40 to 75°C operating temperature
LV-IES01G08F-ST	Unmanaged industrial Ethernet switch, 8*10/100Base-TX RJ45 ports and 1*1000Base-FX ST port, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 550m, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40 to 75°C operating temperature

LV-IES02G08F Series

8*10/100Base-TX to 2*1000Base-FX Unmanaged Industrial Ethernet Switch

1000Mbps Hi-Speed Ethernet

CE FCC RoHS compliant

Features:

- 8*10/100Base-TX RJ45 ports.
- 2*1000Base-FX SC/SFP fiber ports (FC or ST optional).
- Supports 12-58VDC input, redundant power supply with reverse polarity and over-voltage protection.
- DIP switch functions: 1). Port isolation, 2). Flow control, 3). Quality of Service (QoS), 4). Broadcast storm restraint.
- Supports jumbo frames up to 10K bytes in size.
- IP40-rated fan-less aluminum alloy housing with DIN-Rail hardware design.
- Operating temperature range: -40℃ to 75℃.

Overview:

The Linkvue LV-IES02G08F is an unmanaged industrial-grade Ethernet switch with 8-port 10/100Base-TX RJ45 and 2-port 1000Base-FX SC/SFP (FC or ST optional) fiber optic interface. It boasts features like port isolation, flow control, QoS, and broadcast storm restraint, all configurable via the DIP switch on the top panel.

The LV-IES02G08F series offers a cost-effective and user-friendly solution, delivering vital industrial Ethernet networking functions. This includes a wide power input range of 12-58VDC, redundant power design with safeguards against polarity reversal and over-voltage, a sturdy fan-less IP40 compact housing suitable for DIN-Rail installation. It operates effectively in a wide temperature range from -40℃ to 75℃ and excels in high-level EMI/EMC performance. These switches are designed for challenging environments such as heavy industrial factories, transportation, oil & gas facilities, chemicals, IP surveillance, and process automation, these switches exceed standard commercial product specifications.

Technical Specification:

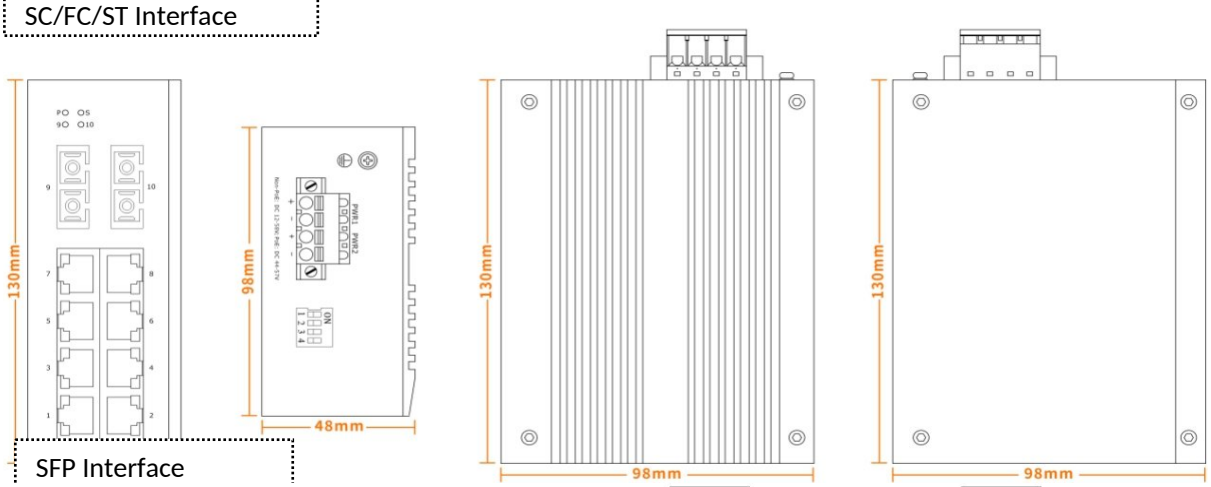
<table>
<tr><td rowspan="3">Interface</td><td colspan="2">Fiber port</td><td colspan="2">Ethernet (RJ45) port</td></tr>
<tr><td colspan="2">2</td><td colspan="2">8</td></tr>
<tr><td colspan="4">8*10/100Base-TX RJ45 ports
2*1000Base-FX SC/SFP fiber ports (FC or ST optional)</td></tr>
<tr><td>Standard</td><td colspan="4">IEEE 802.3 10Base-T Ethernet
IEEE 802.3u Fast Ethernet
IEEE 802.3x Full-Duplex Flow Control
IEEE 802.3az Energy Efficient Ethernet</td></tr>
<tr><td>DIP Switch</td><td colspan="4">1). Port isolation
2). Flow control
3). Quality of Service (QoS)
4). Broadcast storm restraint</td></tr>
<tr><td rowspan="8">LED Indicator</td><td rowspan="2">P (Power Indicator)
Green</td><td colspan="3">Off: Device power is off or a failure has occurred</td></tr>
<tr><td colspan="3">On: Device power is normal</td></tr>
<tr><td rowspan="2">S (System Indicator)
Red</td><td colspan="3">Off: Chip operation is normal</td></tr>
<tr><td colspan="3">On: Chip read/write operations are abnormal</td></tr>
<tr><td rowspan="4">1-8 (RJ45 Port)</td><td>Green Indicator</td><td>Yellow Indicator</td></tr>
<tr><td>Off: Port link is inactive</td><td>Off: Port speed is 10M</td></tr>
<tr><td>On: Port link is active</td><td rowspan="2">On: Port speed is 100M</td></tr>
<tr><td>Blinking: Data transmission on TX/RX</td></tr>
<tr><td rowspan="3">9-10 (Fiber Port)
Green</td><td colspan="3">Off: Port link is inactive</td></tr>
<tr><td colspan="3">On: Port link is active</td></tr>
<tr><td colspan="3">Blinking: Data transmission on TX/RX</td></tr>
<tr><td colspan="5">Power Parameter</td></tr>
<tr><td>Input voltage</td><td colspan="4">12-58VDC (redundant power input)</td></tr>
<tr><td>Input current</td><td colspan="4">0.5A Max</td></tr>
<tr><td>Total power consumption</td><td colspan="4">Full load ≤6W</td></tr>
<tr><td>Connector</td><td colspan="4">Removable 4-pin terminal block</td></tr>
<tr><td>Reverse polarity protection</td><td colspan="4">Supported</td></tr>
</table>

Over-voltage protection	Supported
Switching Feature	
Switching capacity	5.6 Gbps
Packet forwarding rate	4.166 Mpps
MAC address table	2K
VLAN	2K
Buffer	2M
Forwarding delay	<10us
Jumbo frame	10K bytes
MDX/MIDX	Supported
Watchdog	Supported
Network Topology	
Star topology	Supported
Bus topology	Supported
Tree topology	Supported
Mechanical Structure	
IP grade	IP40
Installation method	DIN-Rail
Dimension (W*D*H)	48*98*130 mm
Weight	0.7 kg
Operating Environment	Operating temperature: -40℃ to 75℃ Storage temperature: -40℃ to 85℃ Relative humidity: 5% to 95% (non-condensing)
Industrial Standard	Surge protection of power: IEC 61000-4-5 Level 3 (4kV/2kV, 8/20us) Surge protection of Ethernet port: IEC 61000-4-5 Level 3 (4kV/2kV, 10/700us) DIP: IEC 61000-4-11 Level 3 (10V) ESD: IEC 61000-4-2 Level 4 (8kV/15kV) Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Certification	CE, FCC, RoHS

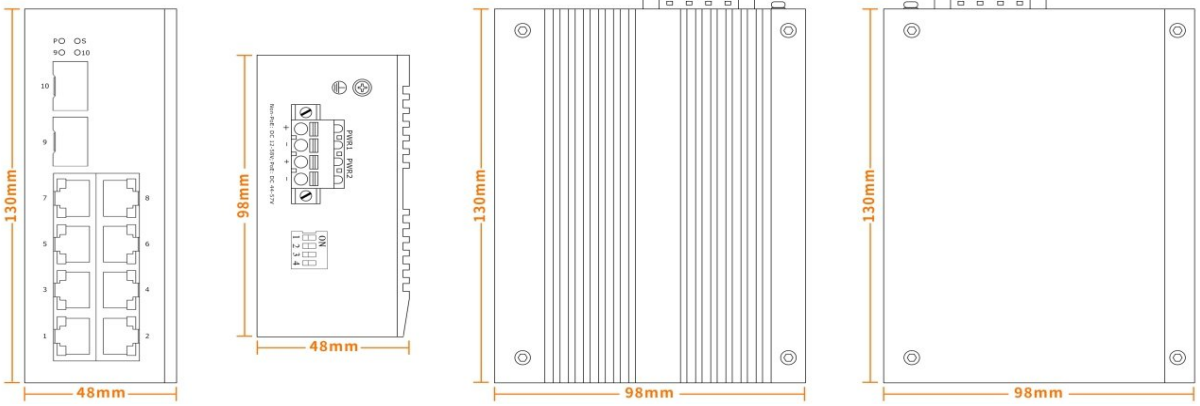
Warranty	5 years

Structure Diagram:

SC/FC/ST Interface



SFP Interface



Order Information:

Model No.	Description
LV-IES02G08F-SFP	Unmanaged industrial Ethernet switch, 8*10/100Base-TX RJ45 ports and 2*1000Base-X SFP slots, DIN-Rail, 12-58VDC, -40 to 75°C operating temperature (The transmission distance of the fiber port depends on the SFP transceiver)
LV-IES02G08F-SC	Unmanaged industrial Ethernet switch, 8*10/100Base-TX RJ45 ports and 2*1000Base-FX SC ports, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 550m, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40 to 75°C operating temperature
LV-IES02G08F-FC	Unmanaged industrial Ethernet switch, 8*10/100Base-TX RJ45 ports and 2*1000Base-FX FC ports, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 550m, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40 to 75°C operating temperature
LV-IES02G08F-ST	Unmanaged industrial Ethernet switch, 8*10/100Base-TX RJ45 ports and 2*1000Base-FX ST ports, Multi-mode/Single-mode, Dual-fiber/Single-fiber, 550m, 20/40/60/80/100/120Km optional, DIN-Rail, 12-58VDC, -40 to 75°C operating temperature

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