

# Ethernet Switch

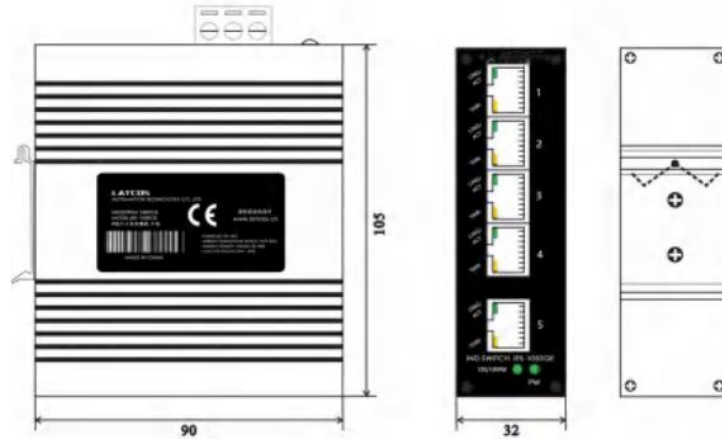
User Manual

## 1 Product Description

Industrial switches are industrial Ethernet switches that meet industrial-grade design requirements, including 100M/100M, unmanaged and managed types. This series adopts mature technology and open network standards, adapts to a wide temperature range, has strong anti-electromagnetic interference, anti-salt spray, anti-seismic and anti-shake, supports redundant dual power supply (DC) input, meets the harsh working environment requirements of industrial sites, and provides industrial Communication provides efficient, reliable and fast solutions.

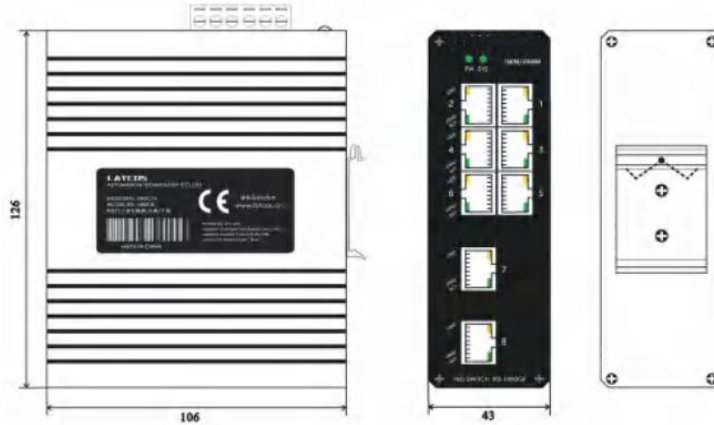
### 1.1 Unmanaged 100M/Gigabit 5\*Electrical Port Ethernet Switch

Description	Model#	Model#
100M&5*Electrical Port	IES-1050-S	
Gigabit&5*Electrical Port		IES-1050GE
Connection		
Electrical interface	5*standard RJ45 Ethernet interface (shielded)	
Optical interface	None	
Power Supply	3Pin plug-in terminal block	
Power Supply		
Working Voltage	12~52VDC	
Working Current	150mA 12V full load	
Technical Parameters		
Channel	5	5
Transmission rate	10/100M, adaptive	10/100/1000M(Max), adaptive
Packet forwarding rate	0.744Mpps	7.44Mpps
Backplane bandwidth	1Gbps	10Gbps
Connection method	Parallel line/cross line adaptation	
Others		
Protection	IP40	
Installation Method	DIN35 rail installation	
Temperature Range	Working temperature -40℃~+85℃	
Humidity range	Working temperature5%~90%	
Dimension	32mm*90mm*105mm	



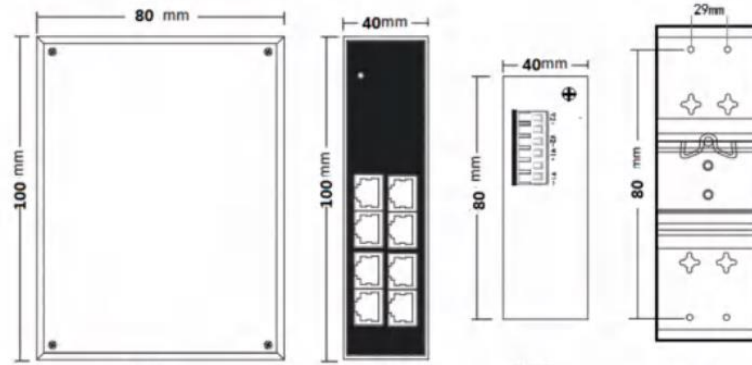
## 1.2 Unmanaged 100M/Gigabit 8\*Electrical Port Ethernet Switch

Description	Model#	Model#
100M&5*Electrical Port	IES-1080-S	
Gigabit&5*Electrical Port		IES-1080GE
<b>Connection</b>		
Electrical interface	8*standard RJ45 Ethernet interface (shielded)	
Optical interface	None	
Power Supply	6Pin plug-in terminal block	
<b>Power Supply</b>		
Working Voltage	12~52VDC	
Working Current	350mA 12V full load	
<b>Technical Parameters</b>		
Channel	8	8
Transmission rate	10/100M, adaptive	10/100/1000M(Max), adaptive
Packet forwarding rate	1.19Mpps	11.9Mpps
Backplane bandwidth	3.8Gbps, non-blocking design	16Gbps, non-blocking design
Connection method	Parallel line/cross line adaptation	
<b>Others</b>		
Protection	IP40	
Installation Method	DIN35 rail installation	
Temperature Range	Working temperature -40℃ ~+85℃	
Humidity range	Working temperature 5%~90%	
Dimension	43mm*106mm*126mm	



### 1.3 Unmanaged 100M/Gigabit Mini 8\*Electrical Port Ethernet Switch

Description	Model#	Model#
100M&5*Electrical Port	IES-1080S-mini	
Gigabit&5*Electrical Port		IES-1080GE-mini
Connection		
Electrical interface	8*standard RJ45 Ethernet interface (shielded)	
Optical interface	None	
Power Supply	6Pin plug-in terminal block	
Power Supply		
Working Voltage	12~52VDC	
Working Current	350mA 12V full load	
Technical Parameters		
Channel	8	8
Transmission rate	10/100M, adaptive	10/100/1000M(Max), adaptive
Packet forwarding rate	1.19Mpps	11.9Mpps
Backplane bandwidth	3.8Gbps, non-blocking design	16Gbps, non-blocking design
Connection method	Parallel line/cross line adaptation	
Others		
Protection	IP40	
Installation Method	DIN35 rail installation	
Temperature Range	Working temperature -40℃~+85℃	
Humidity range	Working temperature 5%~90%	
Dimension	40mm*80mm*100mm	



## 2 Installation and wiring inspection

- Standard DIN35 rail installation
  - The power supply, connectors and wiring required for installation are complete
  - Working environment and power input range comply with product specifications
- ① Confirm that all screws are intact and tightened.
  - ② The routing of power cords and ground wires should comply with engineering design requirements, with reliable connections, good visual contact, and no misconnections.
  - ③ Power cords and signal lines should be laid out separately to avoid interference and hidden dangers.
  - ④ The radius of curvature of the optical fiber should be greater than 20 times the diameter of the optical fiber. Generally, the radius of curvature of the optical fiber should be greater than 40mm.
  - ⑤ When laying the pigtail outside the cabinet, be careful not to be squeezed by other cables or objects, and add pipe sleeves or channels to protect the pigtail.
  - ⑥ There should be enough heat dissipation space around the equipment, and no heavy objects should be placed on the equipment.
  - ⑦ The signal cable should not be damaged, broken or have intermediate joints.

## 3 Precautions

### Lightning safety

Do not install during thunderstorms to avoid damage to the equipment and endanger the workers. High voltage safety

It is prohibited to install or disassemble equipment while power is on to avoid unforeseen risks.

·When performing high-voltage or alternating current operations, ordinary tools cannot be used. Professional tools should be used.

●When operating in an environment with high humidity, the equipment should be protected from moisture. If moisture is found, please turn off the power in time.

Static safe.

Static electricity from the human body may damage the equipment. If the risk is not prevented, the installer must wear an anti-static wrist watch at any time when touching the equipment, and confirm that the anti-static wrist watch is in good contact with the skin, and the other end of the anti-static wrist watch is reliably grounded. . Ground safety, Before installing cables, please make sure that the equipment is correctly and safely connected to the protective ground. If the equipment is not grounded, installation work is not allowed.

Laser safety.

When cutting or splicing the optical fiber and disconnecting the light source, it is strictly forbidden to look directly at the laser output port with naked eyes to avoid damage to the eyes.