



## **RP-ISF500**

### **5-P 10/100TX Industrial Ethernet Switch**

RP-ISF500 is a cost-efficient 5-port 10/100TX Industrial Switch designed for high reliability industrial applications. Equipped with a wide range of voltage power supply options (12 to 56VDC), the RP-ISF500 ensures the safety and reliability of connected equipment by protecting against unregulated voltage fluctuations.

RP-ISF500 includes a 1M memory buffer, a 1K MAC Address Table, and additional protection features like power polarity reverse protection and an overload current re-settable fuse. Its IP-30 standard compact metal case provides excellent protection, and it can be easily mounted on either a DIN rail or a wall, optimizing the use of cabinet space.

RP-ISF500 is a versatile and reliable industrial switch, It is suitable for factory assembly lines, automation, IP surveillance, and traffic monitoring, as well as surveillance purposes in vehicles. With an operating temperature range of  $-40^{\circ}\text{C}$  to  $75^{\circ}\text{C}$ , it is ideal for challenging environments.

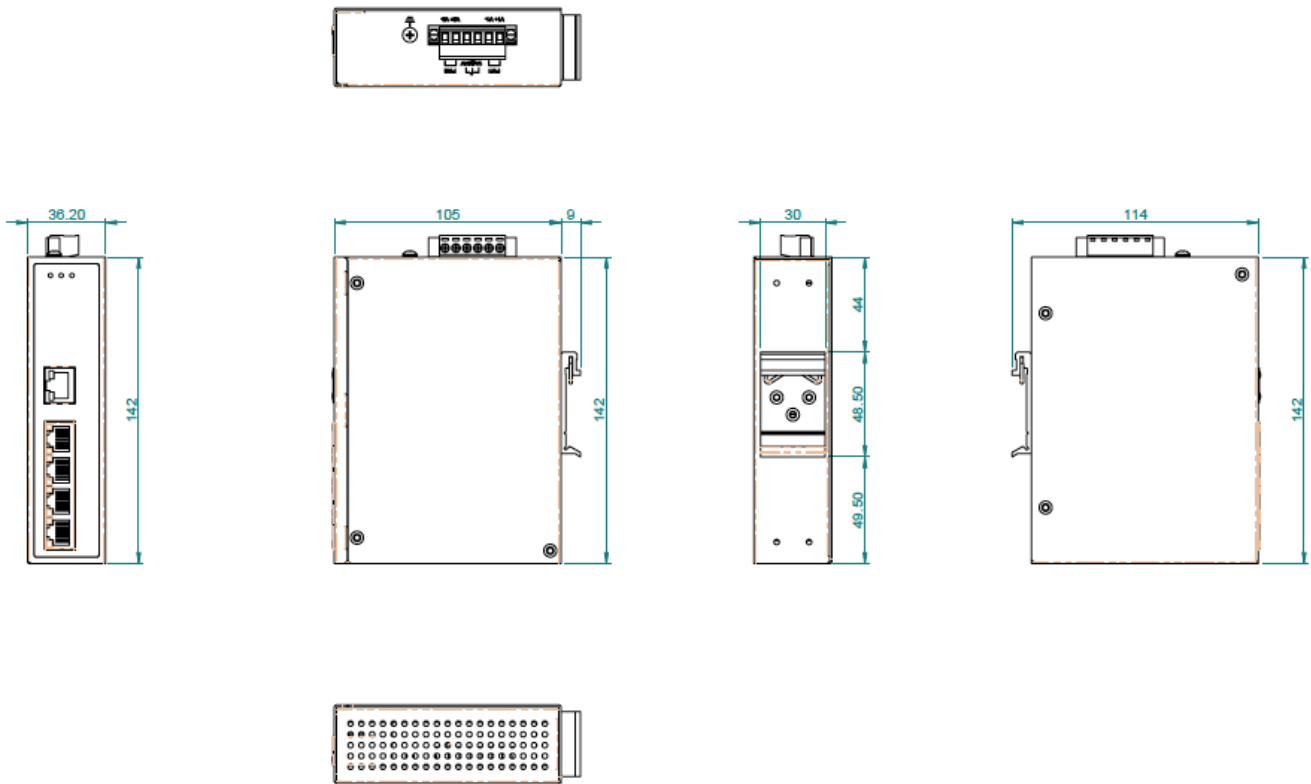
## **Features**

- RJ-45 port support Auto MDI/MDI-X Function
- Store-and-Forward Switching Architecture
- Back-plane (Switching Fabric): 1.0Gbps
- 1M Memory Buffer
- 1K MAC Address Table
- Power Polarity Reverse Protect
- Overload Current Re-settable Fuse Present
- IP-30 Protection
- DIN Rail and Wall Mount Design
- Support Wide Operating Temperature  $-40^{\circ}\text{C} \sim 75^{\circ}\text{C}$

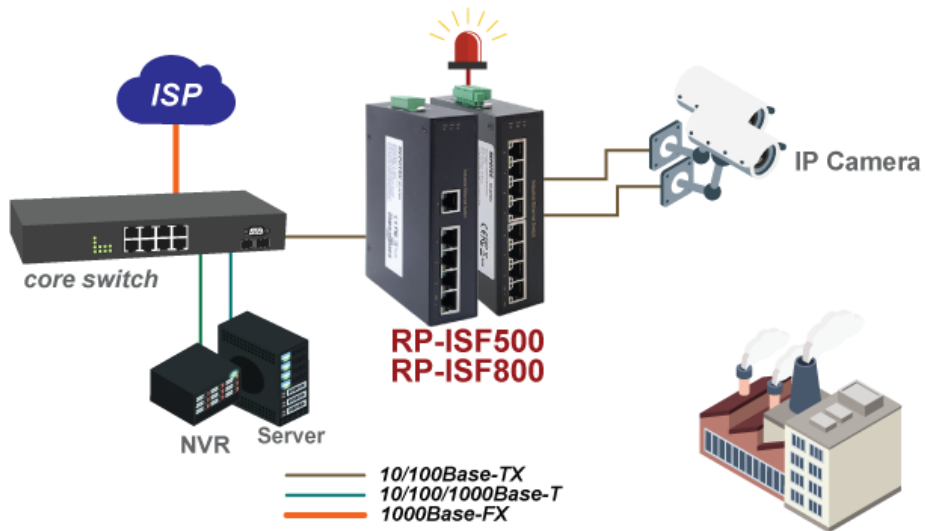
## Specifications

<b>Standards</b>	<ul style="list-style-type: none"> <li>• IEEE 802.3 10Base-T Ethernet</li> <li>• IEEE 802.3u 100Base-TX Fast Ethernet</li> <li>• IEEE 802.3x Flow Control and Back Pressure</li> </ul>
<b>Switch Architecture</b>	<ul style="list-style-type: none"> <li>• Back-plane (Switching Fabric): 1.6Gbps</li> </ul>
<b>Transfer Rate</b>	<ul style="list-style-type: none"> <li>• 14,880pps for Ethernet port</li> <li>• 148,800pps for Fast Ethernet port</li> </ul>
<b>Memory Buffer</b>	<ul style="list-style-type: none"> <li>• 1M</li> </ul>
<b>Mac Address</b>	<ul style="list-style-type: none"> <li>• 1K MAC</li> </ul>
<b>Interface</b>	<ul style="list-style-type: none"> <li>• 10/100TX: 5 *RJ-45 with auto negotiation, Auto MDI/MDI-X function, Full/Half duplex</li> </ul>
<b>Network Cable</b>	<ul style="list-style-type: none"> <li>• 10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm (100m)</li> <li>• 100Base-TX: 2-pair UTP/STP Cat. 5 cable EIA/TIA-568 100-ohm (100m)</li> </ul>
<b>Protocol</b>	<ul style="list-style-type: none"> <li>• CSMA/CD</li> </ul>
<b>LED Indicators</b>	<ul style="list-style-type: none"> <li>• Per unit: Power 1 (Green), Power 2 (Green), ERR(Amber)</li> <li>• Per port: Link/Active (Green)</li> </ul>
<b>Reverse polarity protection</b>	<ul style="list-style-type: none"> <li>• Present</li> </ul>
<b>Overload current protection</b>	<ul style="list-style-type: none"> <li>• Present</li> </ul>
<b>Power Consumption</b>	<ul style="list-style-type: none"> <li>• 3.76W@48 VDC full load</li> </ul>
<b>Power Supply</b>	<ul style="list-style-type: none"> <li>• Redundant Dual DC 9V-56V Power Input</li> </ul>
<b>Alarm Relay Contact</b>	<ul style="list-style-type: none"> <li>• Relay outputs with current carrying capacity of 1 A @24VDC</li> <li>• Relay in open circuit mode when 2 powers are connected. in short circuit mode when only one power supply is connected</li> </ul>
<b>Removable Terminal Block</b>	<ul style="list-style-type: none"> <li>• Provide 2 Redundant power , Alarm relay contact ,6 Pin</li> <li>• Wire range: 0.34mm<sup>2</sup> to 2.5mm<sup>2</sup></li> <li>• Solid wire (AWG):12-24/14-22</li> <li>• Stranded wire(AWG): 12-24/14-22</li> <li>• Torque:5lb-In/0.5Nm/0.56Nm</li> <li>• Wire Strip length: 7-8mm</li> </ul>
<b>Environment</b>	<ul style="list-style-type: none"> <li>• Operating temperature : -40°C~75°C</li> <li>• Storage temperature: -40°C ~85°C</li> <li>• Operating Humidity: 5% to 95% (Non-Condensing)</li> </ul>
<b>Dimension</b>	<ul style="list-style-type: none"> <li>• 142 x 36.2 x 105mm (LxWxD)</li> </ul>
<b>Case</b>	<ul style="list-style-type: none"> <li>• Rugged Metal ,IP30 Protection</li> </ul>
<b>Installation</b>	<ul style="list-style-type: none"> <li>• DIN Rail and Wall Mount Design</li> </ul>
<b>EMC/EMS</b>	<ul style="list-style-type: none"> <li>• CE, FCC</li> </ul>
<b>EMI</b>	<ul style="list-style-type: none"> <li>• FCC Part 15 Subpart B Class A, CE EN 55022 Class A</li> </ul>
<b>Safety</b>	<ul style="list-style-type: none"> <li>• IEC EN60950-1</li> </ul>
<b>Stability Testing</b>	<ul style="list-style-type: none"> <li>• IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)</li> </ul>

## Dimension



## Application



## Ordering information

**RP-ISF500** 5 10/100TX Industrial Ethernet Switch

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