



## 12-Port Gigabit +4-Port Gigabit SFP L2 Managed Industrial Switch

**FR-IS3016GMF-C**

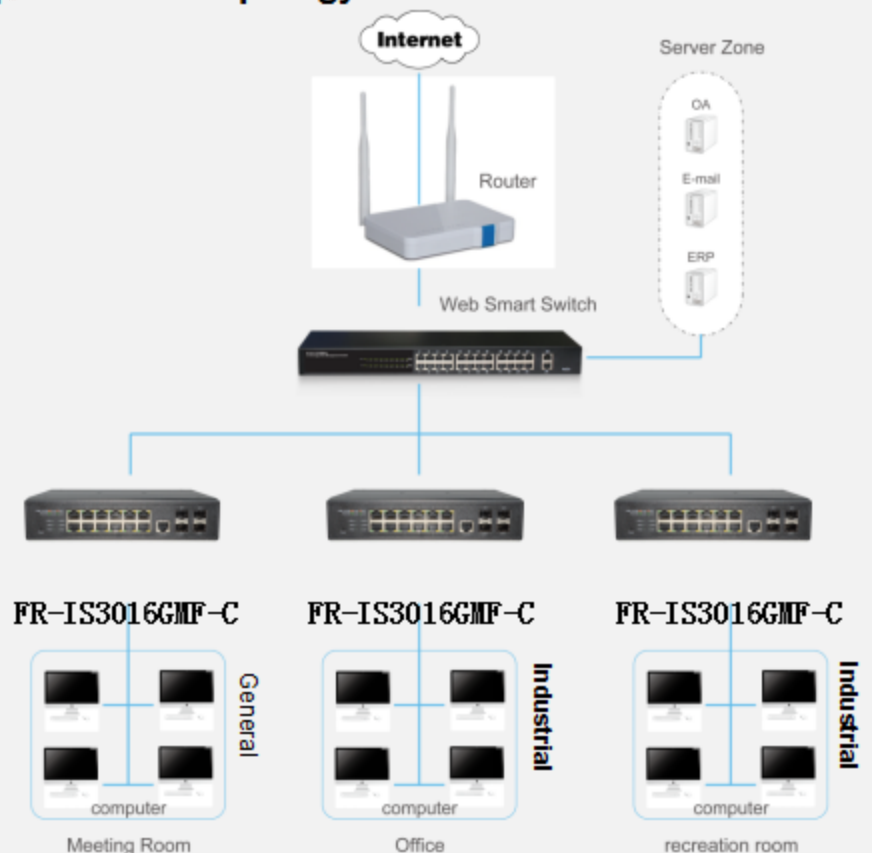
### Characteristics

- Wire-speed forwarding, intelligent recognition
- Internal AC power supply; Support HVDC input
- Support IEEE 1588 protocols
- -40~75 °C Working temperature
- IP40 protection class
- Surge protection up to 6KV
- Power off alarm(1 way relay output, current load capacity 1A @ 24VDC)

### Description

FR-IS3016GMF-C is a 12-Ports gigabit + 4-Port Gigabit SFP L2 managed industrial switch, Provides 12-ports Ethernet ports compatible with 10/100/1000Mbps, plus four Gigabit SFP optical port. Using store and forward technology, combined with dynamic memory allocation, to ensure that the bandwidth is allocated efficiently to each port. Support a variety of management functions, including STP/RSTP, Trunking, LACP, IGMP, VLAN, QoS, RMON, bandwidth management and port mirroring function. This product is designed for harsh industrial environment; IP40 protection grade metal chassis design, support DIN rail installation; port surge protection up to 6KV; the working temperature range of -40~75 °C, can meet the special needs of industrial automation control.

### Application of topology



**12-Port Gigabit +4-Port Gigabit SFP L2 Managed Industrial Switch**

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**Features**

- Comply with IEEE802.3i, IEEE802.3u, IEEE802.3z, IEEE802.3ab, IEEE802.3x, IEEE1588 standards
- Twelve10/100/1000Mbps RJ45 port
- Four 1000Mbps SFP optical port
- Support 8K MAC Address Table & MAC address learning
- Support IGMP Snooping protocol
- Support for broadcast storm suppression
- Internal AC power supply;Supported HVDC input
- Power off alarm(1 way relay output, current load capacity 1A @ 24VDC)
- IP40 protection class , all metal chassis design, support rail installation

**Hardware specifications**

Model	FR-IS3016GMF-C	
Chipset	VSC7429-02	
Standards	IEEE802.3i, IEEE 802.3u, IEEE802.3z, IEEE802.3ab, IEEE802.3x,IEEE802.3az, IEEE802.1d, IEEE802.1q, IEEE802.1p, IEEE802.3ad, IEEE802.1s, IEEE802.1w,IEEE 1588	
Interface	12 *10/100/1000Mbps RJ45 ports (Auto Negotiatin/Auto MDI/MDIX) 4 *1000Mbps SFP optical Port 1 * Console port 1*Re set button	
Network Media	10BASE-T: UTP category 3,4,5 cable (maximum 100m) 100BASE-TX/1000BASE-T: UTP category 5, 5e or above cable (maximum 100m) SFP 1000BASE-X: MMF,SMF	
Transfer Method	Store-and-Forward	
Mac Address Table	8K	
Switching Capacity	32Gbps	
Packet Forwarding Rate	23.81Mpps	
Packet Buffer	4Mbit	
Jumbo Frame	9.6KBytes	
Indicators	Per Device	PWR,System
	Per Port	Link/Activity/Speed(RJ45 port) Link/Activity (SFP port)
Power Supply	100~240VAC,50/60HZ,22.5W, internal power	
	142-340V,HVDC,0.25A	
Power Consumption	Maximum: 9.92W ( 220V/50Hz)	
Dimensions ( W x D x H )	220*150*44mm	
Environment	Operating Temperature: -40℃~75℃ Storage Temperature: -40℃~85℃ Operating Humidity: 5%~95% RH non-condensing Storage humidity: 5%~95% RH non-condensing	

## Software Specifications

<p><b>Basic function</b></p> <ul style="list-style-type: none"> <li>● Ethernet Setup</li> <li>● STP/RSTP/MSTP</li> <li>● Storm-control</li> <li>● Port Monitor</li> <li>● Port rate-limit</li> <li>● MAC filtering</li> </ul>	<p><b>Three layers of functional</b></p> <ul style="list-style-type: none"> <li>● The ARP deception, the network cheating</li> <li>● Filtering the IP port</li> <li>● Static binding IP and MAC</li> <li>● Arp trust port</li> <li>● Static routing capacity</li> <li>● Ping and Traceroute</li> </ul>	<p><b>The security policy</b></p> <ul style="list-style-type: none"> <li>● ACE capacity</li> <li>● ACL</li> <li>● QoS</li> <li>● DAI</li> </ul>
<p><b>VLAN</b></p> <ul style="list-style-type: none"> <li>● Port based VLAN</li> <li>● 802.1Q VLAN</li> </ul>	<p><b>Safety features</b></p> <ul style="list-style-type: none"> <li>● Radius</li> <li>● Tacacs+</li> <li>● Preventing DOS attacks</li> <li>● dot1x</li> <li>● The gateway ARP deception</li> </ul>	<p><b>Application protocol</b></p> <ul style="list-style-type: none"> <li>● DHCP Relay</li> <li>● DHCP snooping</li> <li>● DHCP Client</li> <li>● FTP/TFTP</li> </ul>
<p><b>Management</b></p> <ul style="list-style-type: none"> <li>● HTTP WEB</li> <li>● Telnet</li> <li>● SSH</li> <li>● Console</li> </ul>	<p><b>Other function</b></p> <ul style="list-style-type: none"> <li>● LLDP</li> <li>● IGMP Snooping</li> <li>● SNMPV1,V2c,V3</li> <li>● RMON (1,2,3,9)</li> </ul>	