



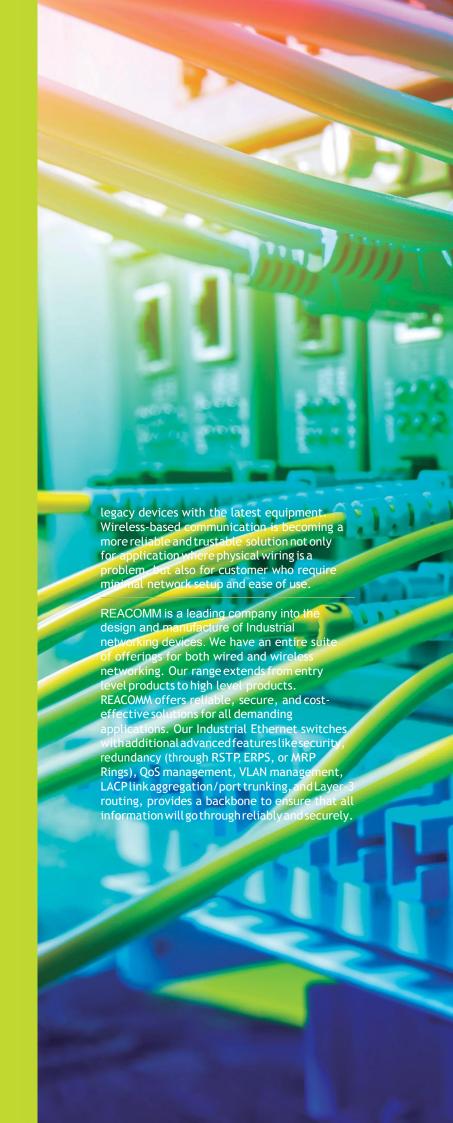
Engineered and manufactured in China

Industrial **Ethernet**

Introduction

The latest trend in Industrial Automation is the vision of "Industry 4.0" that was originated by the German government to create the "Smart Factory" based on the concept of computerized manufacturing. This recent vision of industrial advancement involves creation of the cyber-physical system (CPS). The CPS closely linkes and coordinates the physical components in the real world with the software or computational components in the cyber world to create a mechanism that is controlled and monitored by computer-based algorithms. CPS requires a lot of data exchange among various components in the system. The smart factory with the cyber-physical system can be constructed with the recent technologies such as the Internet of Things (IoT) and the cloud computing. It is envisaged that by the end of the twenty-first century, the smart factory will have more than a billion connected devices. This, therefore, raises a lot of concern on the reliability and the security of network communications.

While Ethernet based networks became the backbone of Industrial Automation, Serial Communication remains relevant to connect



REACOMM's added value

a) Reliability

Modern day factories cannot afford any downtime. Unreliable networks lead to delay in production which is not acceptable in the Industry 4.0 era. These events unfortunately do happen.

REACOMM's products that are very reliable with 25 - years MTBF (mean-time-between-failures) helps in reducing the risk. It's not enough. To further minimize the event of downtime we have products that provide redundancy features. In an event of link or device failure, REACOMM's Smart-Redundancy Feature detects the failure and relay's the cause of the failure back to the control center and automatically recover from such failure thereby providing continuous operation.

Whether a network switch fails or a communication link gets broken, REACOMM's device with Ethernet Ring Protection Switching (ERPS), Rapid Spanning Tree Protocol (RSTP) and Media Redundancy Protocol (MRP) ring settings restores the operation and network connectivity instantly.



b) Harsh Environments

Blast furnace? Sub-zero degree processing? No problem. REACOMM's rugged top-of-theline products are specifically designed to withstand the harshest environments.

With the fanless design and industrial grade components, selected REACOMM products support applications from -40°C to +85°C while guaranteeing a long MTBF. This is achieved by having no moving parts which are usually the causes of breakdowns.

c) Electromagnetic Compatibility EMI/EMS

High-voltages and electromagnetic interferences in factories could be fatal if the devices that are installed are not properly shielded and isolated against electromagnetic susceptibility (EMS).

Without proper design of device and precaution against EMS, equipment breakdown could happen. For instance if a 2,000-Volt surge is applied to the power supply unit, severe damages could be caused to the system. The devices should be also be designed in a way as to not interfere with the surrounding equipment by generating noise (EMI, Electromagnetic Interference).

REACOMM devices are specifically designed with embedded isolation to withstand the harshest industrial-grade electromagnetic interference and susceptibility.

REACOMM's devices confirm to the electromagnetic compatibility (EMC) Level 3 and Level 4 requirements and they are also compliant with the strictest regulations for susceptibility and interference such as UL61010 and EN61000-6-2 and EN61000-6-4.



d) Security/Encryption

Security of data in network is a very important issue in Industry 4.0. The more the devices that can be remotely controlled in smart factories the more is the are vulnerability to various threats and malicious activities such as network penetration, taking over control of the system, and disrupting the manufacturing process.

REACOMM's security solutions provide seamless and cost-effective encrypted links for LANs through MACsec (IEEE Medium Access Control Security Standard, IEEE 802.1AE) and for WANs and Internet through IPsec (Internet Protocol Security) or OpenVPN.

MACsec or IEEE 802.1AE protocol enhances your network with hop-to-hop AES (128- or 192- or 256-bit) encryption and defines the way Public and Private key are managed.

If both connected devices support MACsec, the authentication is auto-negotiated through a RADIUS server before establishing a secure connection. From that point on, all data transferred through the link will be encrypted at the source with a high performance computing hardware that guarantees full bandwidth utilization and decrypted at the other end. If the other end does not support the MACsec, the data will be transmitted without encryption.

REACOMM is a pioneer in the field of security of network devices. We have introduced a whole new range of products. This includes, Secure L3 Routers, Managed L2 and L3 switches, and a cost-effective unmanaged smart and secure switch. With the 256-bi encryption managed through hardware our solution provide a seamless experience and unprecedented performance.

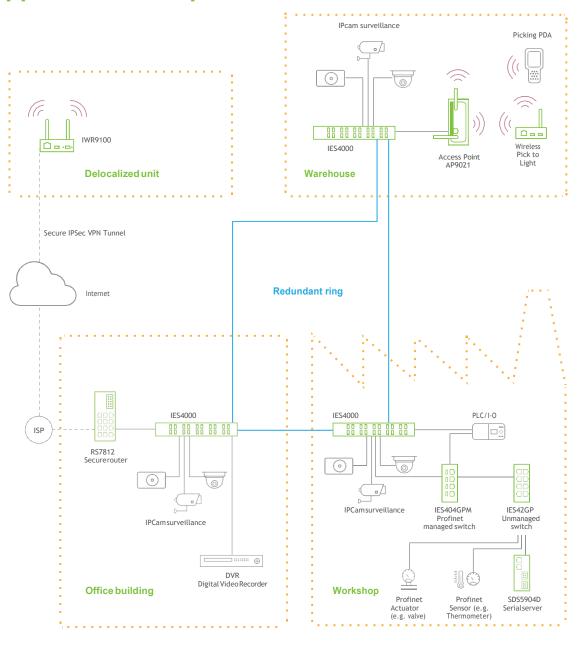
REACOMM's Routers and Serial device servers provide embedded security measure through virtual private network (VPN) using IP security (IPSec) encryption so that all information going in and out of the devices car be properly protected from potential attacks.

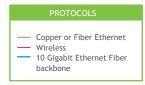


e) Performance/Fast Responsiveness

Integration of legacy network equipment with new infrastructures always has problems on mismatch of speed or data throughput. While the new technologies offer much wider bandwidth and have more and stricter requirement the legacy equipment are generally slow and do not have frequent data updates. REACOMM managed to solve this problem in several ways. For example, our new network device can autonomously poll data from legacy network device and store them in the internal memory until a master device running on the new protocol or on the new physical layer asks for an update. This helps in reducing bottlenecks and increases system performance.

...our Application Example





Harsh Environments Switches

Introduction

REACOMM's advanced DIN-Rail mount product line offers a range of 14 models with over 60 different configurations to choose from. Our harsh environment switches are the best choice to support networks that are very demanding

Our products support wide operating temperatures ranging from -20 to +70°C and many products supporting -40 to +85°C; with 4 to 20 Fast Ethernet or Gigabit ports, Relay Outputs, Profinet Packet Priotization for unmanaged switches and Profinet CC-B compatibility for managed switches. Additionally, some selected products are MIL-STD (Military Standard) certified for shock, vibration, temperature, and humidity.

In addition, we also provide Rack-mount configurations. With the modular architecture of the product, it is possible to customize your devices. The same hardware platform can accommodate three different modules that allows flexibly to choose from 4 powerful 10 Gigabit Ethernet (4 x 10GbE) SFP uplink ports or 4 Gigabit Ethernet (4 x 1GbE) SFP uplink ports.

REACOMM's Layer-3 switch series provides advanced features like Static Routing, Dynamic Routing, RFC 2674 VLAN MIB, IPMAC Binding RIP (Routing Information Protocol) v1/v2, OSPF (Open Shortest Path Frist), DVMRP (Distance Vector Multicast Routing), PIMDM (Protocol Independent Multicast - Dense Mode), PIM-SM (Protocol Independent Multicast - Sparse Mode) and PIM-SSM (Protocol Independent Multicast - Source-Specific Multicast).

REACOMM's managed switches provide flexible advanced network management features to maximize network performance and minimize down-times, such as ERPS/RSTP ring, VLAN, OoS, and trunking.

For high level network security, REACOMM's Secure Managed switch further enhances all the functions of REACOMM's L3 switch with a hardware-based high-performance intelligent security platform, through

(128-,192-, or 256-bit) AES encryption combined with IEEE 802.148 also known as MACsec protocol. REACOMM's intelligent device handles authentication of the node through a autonomously regotiate key in the RADIUS server, for establishing a secure hop-to-hop link, and automatically decrypt the incoming messages which could be addressed to non-MACsec capable devices.

In case there is no RADIUS server, the Key will be negotiated on a Pre Shared-Key base.



Layer-2 Managed DIN-Rail Switches

REACOMM's advanced Layer-2 (L2) managed Ethernet switches for harsh environments provide rugged and solid solutions for managing advanced networks. This series of switches can introduce a high degree of link redundancy, flow control, and

configurability to your network. All models in this series are designed to withstand strictest EMC requirements of compliance level 3 and level 4. Our high-performance components guarantee a real-time packet switching, even on full load.

They are available in Fast-Ethernet and Full-Gigabit Ethernet versions with configurations of 4 to 20 ports, with RJ45 or SFP connector, and optional PoE support. REACOMM's L2 managed switch family supports:

- a. IEEE802.1d for Spanning Tree Protocol (STP)
- b. IEEE802.1w/ IEEE802.1D:2004 for Rapid Spanning Tree Protocol (RSTP)
- c. ITU-T
- c. IEEE802.1q for VLANTagging
- d. IEEE802.1p for Class of Service
- e. IEEE802.1x for Authentication
- f. IEEE802.3ad for Port Trunk with Link Aggregation Control Protocol (LACP)
- g. IGMP (Internet Group Management Protocol) v1/v2
- h. SNMP (Simple Network Management Protocol) v1/v2/v3
- i. GVRP (GARP VLAN Registration Protocol)
- ICMP (Internet Control Message Protocol)
- k. ARP (Address Resolution Protocol)
- I. Telnet
- m. DHCP (Dynamic Host Configuration Protocol) client
- n. TFTP (Trivial File Transfer Protocol)
- o. SNTP (Simple Network Time Protocol)
- p. SMTP (Simple Mail Transfer Protocol)
- q. RMON (Remote Monitoring)
- r. HTTP/HTTPS (Hypertext Transfer Protocol) configuration
- s. Syslog
- t. Profinet CC-B compatible
- u. Modbus/TCP
- v. Ethernet/IP
- w. LLDP (Link Layer Discovery Protocol)
- x. IEEE1588v2 (Precision Time Protocol) hardware assisted transparent clock or IEEE1588v1/v2 sw-assisted boundary clock
- y. IPv4 (selected versions IPv6)
- z. NTP (Network Time Protocol) client
- aa. RADIUS (Remote Authentication Dial-In User Service)
- ab. EAP
- ac. MRP (Client)

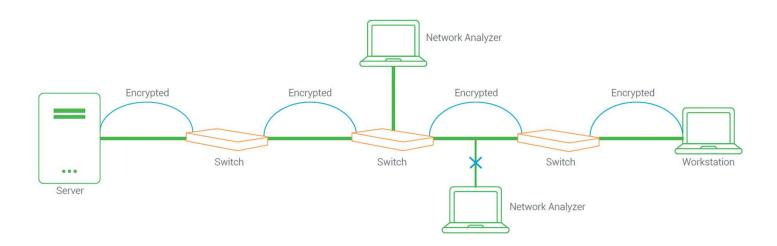
Secure Layer-3 Managed Switches

REACOMM's Secured Layer-3 managed switches add security to the industrial network!

The communication between trusted entities in the network is secured through the combination of the following protocols: IEEE 802.1ae protocol (or MACsec), IEEE 802.1x-2010 protocol for network access control, and strong cryptography of 128-,192-,or 256-bit of GCM-AES.

These products support all authentication, integrity, and confidentiality requirements. Hop-by-Hop encrypted communication with IEEE 802.1x-2010 authentication protocol (i.e., decrypted upon receipt and then encrypted again with a different key before forwarding) protects the network not only from wiretapping, masquerading, man-in-the-middle attacks, and denial-of-service attacks, but also from impersonation and replay attacks.

Security in Short Hops



802. 1AE encrypts frames between network devices, not end to end.

The frames are decrypted in the switches, processed, then re-encrypted and sent to the next device. Network traffic can't be monitored from the wire although a network Analyzer attached to a switch Mirroring port or to a Hub can do this.

Industry-specific Ethernet Switches

Power Networking: IEC 61850-3 made easy

Over the last few decades, various countries around have developed, promoted, and adopted different communication protocols for use between components (such as Control Centers, Remote Terminal Units, Intelligent Electronics Devices) and for network management in electrical power grid. In the North American countries, Distributed Network Protocol (DNP) 3.0 became the standard which was also adopted by IEEE as IEEE Std. 1815-2012, while the European countries relied mainly on IEC 60870 5-161/103/104. The restrict the world adopted MODBUS protocol due to its openness and ease.



Recently, there have been attempts to develop a unified and standardized communication protocol for electrical substation and power grid automation which is called IEC 61850. The new IEC 61850 standard focuses its domain knowledge on the electrical power grid system. It is an object-oriented protocol which utilizes a data modeling scheme that clearly describes each component (such as process objects, protection, and control functionality) of the grid or the substation as standard logical nodes.

This enables data access to the power grid system to yield more details. IEC 61830 Part 3 also defines requirements for network and hardware that are suitable for substation automation. These requirements include electromagnetic immunity (EMI), surge protection, vibration, shock resistance, and temperature ranges that the devices in smart grid system should comply to.

Specifically, an IEC 61850-3 compliant device should

- a. Have a wide temperature range from -40 to 85 °C
- b. Be capable to handle reliable, long distance transmissions through Fiber Course connectivity.
- c. Guarantee QoS (Quality of Service) management and real-time packets witching for COOSE (Generic-Object-Oriented-Substation-Event)
- d. Guarantee a certain level of redundancy in order to minimize packet loss (ring topologies should be supported, and zero-packet-loss technologies such as HSR (High availability Seamlessly Redundancy) or PRP (Parallel Redundancy Protocol) are warmly recommended. REACOMM's devices support RSTP (Rapid Spanning-Tree Protocol) and ERPS (Ethernet Ring Protection Switch) rings.
- e.Guarantee a wide tolerance for vibrations and shocks. NEALUMM's devices comply with ML-518-518F.
- f. Comply with the tough electromagnetic immunity and emission standards as shown in detail below due to which PoE is not allowed in IEC 61850-3.



REACOMM provides, aside the certified networking equipment listed in this brochure, additional IEC 61850-3 compliant products. For more information, please check out our Smart Grid Whitepaper or our Protocol Gateway and Real-Time Communication Solutions Brochure.

| Test | Version | | Item | Value | Level | Criterion |
|----------------|---------|---|---|---|-----------------------|------------------|
| IEC 61000-4-2 | 2008 | ESD | Contact Discharge AirDischarge | ±8KV ±15KV | 4 | B B |
| IEC 61000-4-3 | 2010 | RS | Enclosure Port | 10(V/m), 80-1000MHz, 80% AM, 1G-3GHz | 3 | А |
| IEC 61000-4-4 | 2012 | EFT | AC Power Port DC Power Port Signal Port | ±4.0KV@ 2.5KHz ±4.0KV@ 2.5KHz ±2.0KV@ 5.0KHz | 4 4 4 | B B B |
| IEC 61000-4-5 | 2014 | Surge | AC Power Port AC Power Port DC Power Port DC Power Port Signal Port | Line-to Line±2.0KV Line-to Earth±4.0KV Line-to Line±1.0KV Line-to Earth±2.0KV Line-to Earth±4.0KV | 4 4 3 3 4 | B B B B |
| IEC 61000-4-6 | 2013 | CS | AC Power Port DC Power Port Signal Port | 10V, 150KHz-80MHz, 80%AM 10V, 150KHz-80MHz, 80%AM 10V, 150KHz-80MHz, 80%AM | 3 3 3 | A A A |
| IEC 61000-4-8 | 2009 | PFMF | (Enclosure) | 100A/m continuous,1000A/m for 3S | 5 | А |
| IEC61000-4-10 | 2000 | Damped Oscillatory magnetic Field | (Enclosure) | 100A/m,100KHz,1MHz | 5 | А |
| IEC 61000-4-11 | 2004 | DIP | AC Power Port | Drop 70% for 3 times/S (1 Period) Drop 40% for 3 times/1mS (50 Period) Drop 100% for 3 times/50mS (5 & 50 Period) | N/A N/A N/A | A A A |
| IEC 61000-4-12 | 2006 | Damped Oscillatory | AC Power Port Signal Port | 2.5KV common,1KV differential mode @ 1MHz 2.5KV common,1KV differential mode @ 1MHz | 3 | B B |

Railway Networking: EN50155 Made Easy

EN 50155 is a European norm, but is widely recognized for electronic equipment that is used in any railway application.

This standards cover several criteria that networking devices installed on trains must comply with.

EN 50155 defines product features that include temperature ranges, humidity, shock resistance, vibration resistance, power supply, electromagnetic interference/susceptibility, power surge, electrostatic discharge (ESD) and transient factors.

REACOMM's railway-certified switches combine the powerful platforms of industrial Ethernet switches and all of their advanced features in a robust and reliable unit.



Mechanical requirements

• Rolling equipment:

- Vibration: Category < 0.3 Kg - Frequency range: 5 - 150 Hz

- Acceleration: 5G

- Shock (half sinus): Long/ Trans. /Vert Axis

- Peak acceleration: 5g/2g/1g - Duration: 50 ms / 20 ms / 20 ms

• Ground equipment: N/A

Temperature Requirements

| Category | Internal cabinet temperature range | Ambient board temperature range | GAIA converter modules temperature range | | | | |
|----------|---------------------------------------|---------------------------------|---|--|--|--|--|
| T1 | -25/55 °C | -25/70 °C | Industrial line: -40/71 °C ambient | | | | |
| T2 | -40/55 °C | -40/70 °C | Industrial line: -40/71 °C ambient | | | | |
| ТЗ | -25/70 °C | -25/85 °C | Hi-rel line: -40/85 °C ambient | | | | |
| T4 | -40/70 °C | -40/85 °C | Hi-rel line: -40/85 °C ambient | | | | |

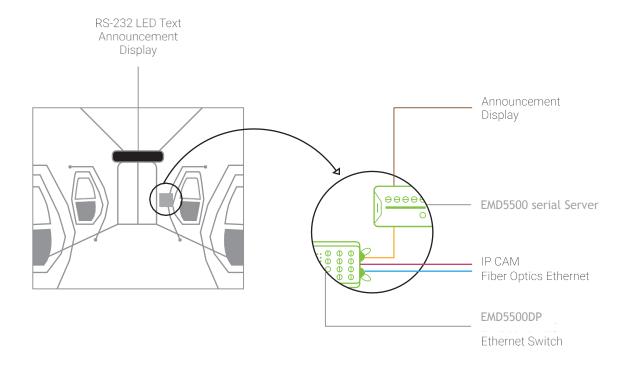
Humidity: EN50155 2 x 25H 40

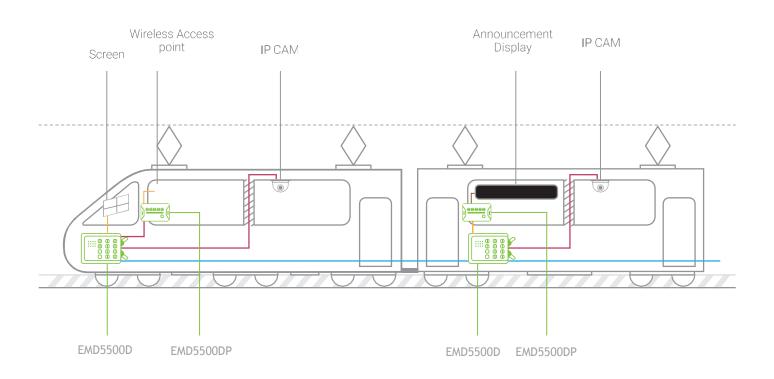
Electromagnetic compatibility:

• CE/FCC

• 24 VDC: 500 Veff/ 50 Hz/ 1 min • 48 VDC: 500 Veff/ 50 Hz/ 1 min • 72~125 VDC: 1,000 Veff/ 50 Hz/ 1 min • 125~315 V: 1,500 Veff/ 50 Hz/ 1 min • For other details rely to EN50155

...our Application Example





Fiber Optics Ethernet Twist Pair Ethernet

— PoE

RS-232 Serial

Fast Unmanaged Industrial Switch

| | | | | Specification | | | | | | | |
|------|--------------|--|---------|--|---|---|--|---|---|--|--|
| S/N | Model | Product Description | Picture | Power | LED | Physical property | switching characteristics | standard | industrial standard | reliable prediction | environmental requirement |
| 1 | RC-IES102 | DIN Rail Unmanaged Industrial Switch Fiber Ports: 1100Base-Fx (FC/SC/ST optional) RJ45 Ports: 2 10/100Base-Tx DC:12-36V | | Power Terminal: 5-pin 3.81mm-spacing plug-in terminal block Full load power consumption: < 2W Overload Protection: Support Reverse Connection Protection: Support Redundancy Protection: Support | Power LED: P1 P2 Interface LED: RJ45 (Link&ACT) Fiber: F (Link&ACT) | Housing: Metal, fanless Protection Class: IPS Dimensions: 84mm*90mm*30mm(L*W*H) Weight: 0.35kg Mounting: DIN-Rail or Panel mounting | MAC Table: 1K Packet Buffer: 448K Packet Forwarding Rate: 0.4464Mpps Switching Delay: <5us | IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX 100Base-X | EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air) IEC61000-4-3 (RS): 10V/m (80MHz-2GHz) IEC61000-4-4 (EFT): Power Port: ±4kV, Data Port: ±2kV IEC61000-4-6 (SS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall) | Operating Temperature: -40 to 85°C Storage Temperature: -45 to 85°C Ambient Relative Humidity: 5 to 95% (non-condensing) |
| 2 | RC-IES104 | DIN Rail Unmanaged Industrial Switch Fiber Ports: 1 100Base-Fx (FC/SC/ST optional) RJ45 Ports: 4 10/100Base-Tx DC:12-36V | | Power Terminal: 5-pin 381mm-spacing plug-in terminal block Full load power consumption: 4port RJ-45 + 1port Fiber < 2W Overload Protection: Support Reverse Connection Protection: Support Redundancy Protection: Support | Power LED: PWR Interface LED: RJ45(Link&ACT) , Fiber(Link&ACT) | Housing: Metal, fanless Protection Class: IP40 Dimensions: 115mm* 90mm*30mm(L*W*H) Weight: 0.45kg Mounting: DIN-Rail or Panel mounting | MAC Table: 1K Packet Buffer: 448K Packet Forwarding Rate: 0.74Mpps Switching Delay: <5us | IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX 100Base-X | EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air) IEC61000-4-3 (RS): 10V/m (60MHz-2GHz) IEC61000-4-4 (EFT); Power Port: ±4kV, Data Port: ±2kV IEC61000-4-5 (Surge); Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) IEC61000-4-16 (Common mode conduction); 30V (cont.), 300V (rs) | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall) | Operating Temperature: -40 to 85°C Storage Temperature: -45 to 85°C Ambient Relative Humidity: 5 to 95% (non-condensing) |
| 3 | | DIN Rail Unmanaged Industrial Switch RJ45 Ports: 5 10/100Base-Tx DC:12-36V | ama a | Power Terminal: 5-pin 3.81mm-spacing plug-in terminal block Full load power consumption: Sport R.445 <1W Overtoad Protection: Support Reverse Connection Protection: Support Redundancy Protection: Support Redundancy Protection: Support | Power LED: PWR Interface LED: RJ45(Link&ACT) , | Housing: Metal, fanless Protection Class: IP40 Dimensions: 115mm*90mm*30mm(L*W*H) Weight: 0.45kg Mounting: DIN-Rail or Panel mounting | MAC Table: 1K Packet Buffer: 448K Packet Forwarding Rate: 0.74Mpps Switching Delay: <5us | IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX | EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: FC61000-4-2 (ESD): ±8kV (contact), ±15kV (air) IEC610004-3 (RS): 10V/m (80MHz-2cHz) IEC610004-4 (EFT): Power Port: ±4kV; Data Port: ±2kV IEC610004-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV IEC610004-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) IEC610004-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) IEC610004-6 (Common mode conduction): 30V (cont.), 300V (1s) | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall) | Operating Temperature: -40 to 85°C Storage Temperature: -45 to 85°C Ambient Relative Humidity: 5 to 95% (non-condensing) |
| 4 | RC-IES005E | DIN Rail Unmanaged Industrial Switch RJ45 Ports: 5 10/100Base-Tx DC:12-36V | | Power Terminal: 5-pin 3.81 mm-spacing plug-in terminal block Full load power consumption: Sport R.45 <1W Overload Protection: Support Reverse Connection Protection: Support Redundancy Protection: Support Redundancy Protection: Support | Power LED: PWR Interface LED: RJ45(Link&ACT) , | Housing: Metal, fanless Protection Class: IP40 Dimensions: 118mm*89mm*28mm(L*W*H) Weight: 0.4kg Mounting: DIN-Rail or Panel mounting | MAC Table: 1K Packet Buffer: 448K Packet Forwarding Rate: 0.74Mpps Switching Delay: <5us | IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX | EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: IEC61000.4-2 (ESD): ±8kV (contact), ±15kV (gir) IEC61000.4-3 (RS): 10V/m (80MHz.2cHz) IEC61000.4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV IEC61000.4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV IEC61000.4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) IEC61000.4-16 (COmmon mode conduction): 30V (cont.), 300V (rs) | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall) | Operating Temperature: -30 to 75°C Storage Temperature: -45 to 85°C Ambient Relative Humidity: 5 to 95% (non-condensing) |
| 5 | RC-IES008 | DIN Rail Unmanaged Industrial Switch RJ45 Ports: 8 10/100Base-Tx DC:12-36V | | Power Terminal: 5-pin 3.81mm-spacing plug-in terminal block Full load power consumption: <2W Overload Protection: Support Reverse Connection Protection: Support Redundancy Protection: Support | Power LED: PWR Interface LED: RJ45(Link&ACT) , Fiber(Link&ACT) | Housing: Metal, fanless Protection Class: IP40 Dimensions: 99mm*100mm*45mm (L*V*H) Weight: 0.55kg Mounting: DIN-Rail or Panel mounting | MAC Table: 1K Packet Buffer: 448K Packet Forwarding Rate: 1.1904Mpps Switching Delay: <5us | IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX | EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air) IEC61000-4-3 (RS): 10V/m (80MHz-2GHz) IEC61000-4-4 (EFT); Power Port: ±4kV, Data Port: ±2kV IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) IEC61000-4-6 (COmmon mode conduction): 30V (cont.), 300V (1s) | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall) | Operating Temperature: -40 to 85°C Storage Temperature: -45 to 85°C Ambient Relative Humidity: 5 to 95% (non-condensing) |
| 6 F | RC-IES2208FF | DIN Rail Unmanaged Industrial Switch Fiber Ports: 2 1000Base-Fx (Combo) RJ45 Ports: 8 10/100Base-Tx DC:12-36V | | Power Terminal: 4-pin 5.08mm-spacing plug-in terminal block Full load power consumption: < 6W Overload Protection: Support Reverse Connection Protection: Support Redundancy Protection: Support | Power LED: PWR Interface LED: RJ45(Link&ACT) , Fiber(Link&ACT) | Housing: Metal, fanless Protection Class: IP40 Dimensions: 175mm*100mm*44.5mm(L*W*H) Weight: 0.8kg Mounting: DIN-Rail or Panel mounting | MAC Table: 16K Packet Buffer: 4M Packet Forwarding Rate: 4.166Mpps Switching Delay: <5us | IEEE 802.3 10Base-T IEEE 802.3u 100Base-T IEEE 802.3ab 1000Base-T IEEE 802.3z 1000Base-X | EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air) IEC610004-3 (RS): 10V/im (80MHz-2GHz) IEC610004-4 (EFT): Power Port: ±4kV; Data Port: ±2kV IEC610004-6 (SS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) IEC610004-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) IEC610004-6 (COmmon mode conduction): 30V (cont.), 300V (rs) | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fa | Operating Temperature: -40 to 85°C Storage Temperature: -45 to 85°C Ambient Relative Humidity: 5 to 95% (non-condensing) |
| 7 | | DIN Rail Unmanaged Industrial Switch RJ45 Ports: 8 10/100Base-Tx DC:12-36V | | Power Terminal: 5-pin 3.81mm-spacing plug-in terminal block Full load power consumption: <2W Overload Protection: Support Reverse Connection Protection: Support Redundancy Protection: Support | Power LED: PWR Interface LED: RJ45(Link&ACT) , Fiber(Link&ACT) | Housing: Metal, fanless Protection Class: IP40 Dimensions: 101mm*87mm*41mm(L*W*H) Weight: 0.45kg Mounting: DIN-Rail or Panel mounting | MAC Table: 1K Packet Buffer: 448K Packet Forwarding Rate: 1.1904Mpps Switching Delay: <5us | IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX | EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air) IEC61000-4-3 (RS): 10V/m (80MHz-2GHz) IEC61000-4-4 (EFT); Power Port: ±4kV, Data Port: ±2kV IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) IEC61000-4-6 (COmmon m | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall) | Operating Temperature: -30 to 75°C Storage Temperature: -45 to 85°C Ambient Relative Humidity: 5 to 95% (non-condensing) |
| 8 | | DIN Rail Unmanaged Industrial Switch RJ45 Ports: 16 10/100Base-Tx DC:12-36V | HHHHH | Power Terminal: 5-pin 3.81mm-spacing plug-in terminal block Full load power consumption: <4W Overload Protection: Support Reverse Connection Protection: Support Redundancy Protection: Support | Power LED: PWR Interface LED: RJ45(Link&ACT) , Fiber(Link&ACT) | Housing: Metal, fanless Protection Class: IP40 Dimensions: 158mm*100mm*44.5mm (L-VV*H) Weight: 0.75kg Mounting: DIN-Rail or Panel mounting | MAC Table: 3K Packet Buffer:1.3M Packet Forwarding Rate: 2.38Mpps Switching Delay: <5us | IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX | EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air) IEC61000-4-3 (RS): 10V/m (80MHz-2GHz) IEC61000-4-4 (IET); Fower Port: ±4kV, Data Port: ±2kV IEC61000-4-5 (Surge): Power Port: ±2kV/M, ±4kV/CM; Data Port: ±2kV IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) IEC61000-4-16 (Common mode conduction); 30V (cont.), 300V (rs) | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall) | Operating Temperature: -40 to 85°C Storage Temperature: -45 to 85°C Ambient Relative Humidity: 5 to 95% (non-condensing) |
| 9 | RC-IES016E | DIN Rail Unmanaged Industrial Switch RJ45 Ports: 16 10/100Base-Tx DC:12-36V | | Power Terminal: 5-pin 3.81mm-spacing plug-in terminal block Full load power consumption: <4W Overload Protection: Support Reverse Connection Protection: Support Redundancy Protection: Support | Power LED: PWR Interface LED: RJ45(Link&ACT) , Fiber(Link&ACT) | Housing: Metal, fanless Protection Class: IP40 Dimensions: 161mm x 99mm x 42mm(L*W*) Weight: 0.65kg Mounting: DIN-Rail or Panel mounting | MAC Table: 3K Packet Buffer:1.3M Packet Forwarding Rate: 2.38Mpps Switching Delay: <5us | IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX | | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall) | Operating Temperature: -30 to 75°C Storage Temperature: -45 to 85°C Ambient Relative Humidity: 5 to 95% (non-condensing) |
| 10 F | | Desktop Industrial Switch Fiber Ports: 1 1000Base-Fx (Combo) RJ45 Ports: 8 10/100Base-Tx AC:100-240V | | Power Terminal: 10 A plug Full load power consumption: <12W Overload Protection: Support Reverse Connection Protection: Support Redundancy Protection: Support | Power LED: PWR Interface LED: RJ45(Link&ACT) , Fiber(Link&ACT) | Housing: Metal, fanless Protection Class: IP40 Dimensions: 280mm*132mm*44.5mm (L*V*H) Weight: 2.5kg Mounting: Rack mouting | MAC Table: 4K Packet Buffer:1M Packet Forwarding Rate:5.3568Mpps Switching Delay: <5us | IEEE 802.3 10Base-T IEEE 802.3u 100Base-T IEEE 802.3ab 1000Base-T IEEE 802.3z 1000Base-X | EMI:FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS:IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air) IEC610004-3, (RS): 10V/m (80MHz-2CHz) IEC610004-4, (EFT): Power Port: ±4kV). Data Port: ±2kV IEC610004-4 (EFT): Power Port: ±2kV/DM; 4kV/CM: Data Port: ±2kV IEC610004-6, (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) IEC610004-6 (CS): 3V (10kHz-150kHz); 30V (cont.), 30V (1s) | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall) | Operating Temperature: -40 to 85°C Storage Temperature: -45 to 85°C Ambient Relative Humidity: 5 to 95% (non-condensing) |

| 11 RC-IES4416FR | Rack mount Unmanaged Industrial Switch Fiber Ports: 4 1000Base-Fx (Combo) RJ45 Ports: 16 10/100Base-Tx AC:100-240V | HHHHH H | Power Terminal: 10 A plug Full load power consumption: <14W Overload Protection: Support Reverse Connection Protection: Support Redundancy Protection: Support | Power LED: PWR Interface LED: RJ45(Link&ACT) , | Housing: Metal, fanless Protection Class: IP40 Dimensions:430mm*220mm *44.5mm(L"WH) Weight: 3.2kg Mounting: Rack mouting | MAC Table: 16K Packet Buffer:4M Packet Forwarding Rate: 8.3328Mpps Switching Delay: <5us | IEEE 802.3 10Base-T IEEE 802.3u 100Base-T IEEE 802.3ab 1000Base-T IEEE 802.3z 1000Base-X | | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall) | Operating Temperature: -40 to 85°C Storage Temperature: -45 to 85°C Ambient Relative Humidity: 5 to 95% (non-condensing) |
|-----------------|---|---------|--|---|---|--|---|---|--|--|
| 12 RC-IES4424FR | Rack mount Unmanaged Industrial Switch Fiber Ports: 4 1000Base-Fx (Combo) RJ45 Ports: 24 10/100Base-Tx AC:100-240V | | | Power LED: PWR Interface LED: RJ45(Link&ACT) , | | Packet Forwarding | | IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air) IEC61000-4-3 (RS): 10V/m (80MHz-2GHz) IEC61000-4-4 (FET): Power Port: ±4kV, Data Port: ±2kV | IEEE 802.3 10Base-T IEEE 802.3u 100Base-T IEEE 802.3u 1000Base-T IEEE 802.3u 1000Base-X | Operating Temperature: -40 to 85°C Storage Temperature: -45 to 85°C Ambient Relative Humidity: 5 to 95% (non-condensing) |

Gigabit Unmanaged Industrial Switch

| | | | | | | | | Specification | | | | | | | | |
|----|-------|-----------|--|---------|---|---|--|--|--|--|--|---|--|--|--|--|
| S/ | N | Model | Product Description | Picture | Power | LED | Physical property | switching characteristics | standard | industrial standard | reliable prediction | environmental requirement | | | | |
| 1 | RC- | -IES1002F | DIN Rail Unmanaged Industrial Switch Fiber Ports: 1 1000Base-Fx (SFP) R/45 Ports: 2 10/100/1000Base-Tx DC:12-36V | | Power Terminal: 5-pin 3.81mm-spacing plug-in terminal block Full load power consumption: < 3W Overload Protection: Support Reverse Connection Protection: Support Redundancy Protection: Support | Power LED: P1 P2 Interface LED: RJ45(Link&ACT) Fiber: (Link&ACT) | Housing: Metal, fanless Protection Class: IP40 Dimensions: 84mm*90mm*30mm(L*W*H) Weight: 0.35kg Mounting: DIN-Rail or Panel mounting | MAC Table: 4K Packet Buffer: 1M Packet Forwarding Rate: 4.464Mpps Switching Delay: <5us | IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3u 1000BASE-T IEEE 802.3z 1000Base-X | EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: IEC6100-4-2 (ESD): ±8kV (contact), ±15kV (air) IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air) IEC61000-4-4 (EFT): Power Port: ±4kV, Data Port: ±2kV IEC61000-4-6 (SD; ±3V (10kHz-150kHz): 10V (150kHz-80MHz) IEC61000-4-6 (CS): ±3V (10kHz-150kHz): 10V (150kHz-80MHz) IEC61000-4-16 (CSm): ±3V (10kHz-150kHz): 10V (150kHz-80MHz) IEC61000-4-16 (CSm): ±3V (10kHz-150kHz): 10V (150kHz-80MHz) | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall) | Operating Temperature: -40 to 85°C Storage Temperature: -45 to 85°C Ambient Relative Humidity: 5 to 95% (non-condensing) | | | | |
| 2 | ? RC∙ | -IES2004F | DIN Rail Unmanaged Industrial Switch Fiber Ports: 2 1000Base-Fx (SFP) RJ45 Ports: 4 10/100/1000Base-Tx DC:12-36V | ашы | Power Terminal: 5-pin 3.81mm-spacing plug-in terminal block Full load power consumption: < 4W Overload Protection: Support Reverse Connection Protection: Support Redundancy Protection: Support | Power LED: PWR Interface LED: RJ45(Link&ACT) , Fiber(Link&ACT) | Housing: Metal, fanless Protection Class: IP40 Dimensions: 134mm*90mm*30mm (L*W*H) Weight: 0.50kg Mounting: DIN-Rail or Panel mounting | MAC Table: 4K Packet Buffer: 1M Packet Forwarding Rate: 8.928Mpps Switching Delay: <5us | IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3ab 1000BASE-T IEEE 802.3z 1000Base-X | EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: ECG 1500-4-2 (ESD): ±8kV (contact), ±15kV (air) IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air) IEC61000-4-3 (RS): 10V/m (80MHz-2GHz) IEC61000-4-6 (EST): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV IEC61000-4-6 (CS): 3V (10kHz-150kHz): 10V (10kHz-850MHz) IEC61000-4-16 (CSM): and conduction): 30V (cont.), 300V (1s) | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall) | Operating Temperature: -40 to 85°C Storage Temperature: -45 to 85°C Ambient Relative Humidity: 5 to 95% (non-condensing) | | | | |
| 3 | RC- | -IES1005F | DIN Rail Unmanaged Industrial Switch Fiber Ports: 1 1000Base-Fx (SFP) R.445 Ports: 5 10/100/1000Base-Tx DC:12-36V | anno, | Power Terminal: 5-pin 3.81mm-spacing plug-in terminal block Full load power consumption: < 4W Overload Protection: Support Reverse Connection Protection: Support Redundancy Protection: Support | Power LED: PWR Interface LED: RJ45(Link&ACT) , Fiber(Link&ACT) | Housing: Metal, fanless Protection Class: IP40 Dimensions: 134mm*90mm*30mm (L*W*H) Weight: 0.50kg Mounting: DIN-Rail or Panel mounting | MAC Table: 4K Packet Buffer: 1M Packet Forwarding Rate: 8.928Mpps Switching Delay: <5us | IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3ab 1000BASE-T IEEE 802.3z 1000Base-X | EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: ECG 1500-4-2 (ESD): ±8kV (contact), ±15kV (air) IEC61000-4-2 (ESD): ±9kV (contact), ±15kV (air) IEC61000-4-3 (RS): 10V/m (80MHz-2GHz) IEC61000-4-6 (EST): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV IEC61000-4-6 (CS): 3V (10kHz-150kHz): 10V (150kHz-80MHz) IEC61000-4-16 (CSm): and code conduction): 30V (cont.), 30V (vfs) IEC61000-4-16 (Common mode conduction): 30V (cont.), 30V (vfs) | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall) | Operating Temperature: -40 to 85°C Storage Temperature: -45 to 85°C Ambient Relative Humidity: 5 to 95% (non-condensing) | | | | |
| 4 | RC | C-IES0008 | DIN Rail Unmanaged Industrial Switch RJ45 Ports: 8 10/100/1000Base-Tx DC:12-36V | | Power Terminal: 5-pin 3.81mm-spacing plug-in terminal block Full load power consumption: <4W Overload Protection: Support Reverse Connection Protection: Support Redundancy Protection: Support Redundancy Protection: Support | Power LED: PWR Interface LED: RJ45(Link&ACT) , Fiber(Link&ACT) | Housing: Metal, fanless Protection Class: IP40 Dimensions: 99mm*100mm*44.5mm(L*W*H) Weight: 0.55kg Mounting: DIN-Rail or Panel mounting | MAC Table: 8K Packet Buffer: 2M Packet Forwarding Rate: 11.904Mpps Switching Delay: <5us | IEEE 802.3 10Base-T IEEE 802.3u 100Base-T IEEE 802.3ab 1000Base-T | EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air) IEC61000-4-3 (RS): 10V/m (80Mt-2:2GH2) IEC61000-4-4 (EFT): Power Port: ±4kV, Data Port: ±2kV IEC61000-4-6 (CS): 3V (10kHz-150kHz): 10V (15kHz-80MHz) IEC61000-4-16 (CS): 3V (10kHz-150kHz): 10V (15kHz-80MHz) IEC61000-4-16 (Common mode conduction; 30V (cont.), 300V (1s) | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall) | Operating Temperature: -40 to 85°C Storage Temperature: -45 to 85°C Ambient Relative Humidity: 5 to 95% (non-condensing) | | | | |
| Ę | i RC- | -IES2008F | DIN Rail Unmanaged Industrial Switch Fiber Ports: 2 1000Base-Fx (SFP) R/45 Ports: 8 10/100/1000Base-Tx DC:12-36V | | Power Terminal: 4-pin 5.08mm-spacing plug-in terminal block Full load power consumption: < 6W Overload Protection: Support Reverse Connection Protection: Support Redundancy Protection: Support Redundancy Protection: Support | Power LED: PWR Interface LED: RJ45(Link&ACT) , Fiber(Link&ACT) | Housing: Metal, fanless Protection Class: IP40 Dimensions:166mm*100mm*44.5mm(L*W* H) Weight: 0.8kg Mounting: DIN-Rail or Panel mounting | MAC Table: 16K Packet Buffer: 2M Packet Forwarding Rate: 14.88Mpps Switching Delay: <5us | IEEE 802.3 10Base-T IEEE 802.3u 100Base-T IEEE 802.3u 1000Base-T IEEE 802.3u 1000Base-X | EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air) IEC61000-4-3 (RS): 10V/m (80M1-2:2GHz) IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV IEC61000-4-6 (CS): 3V (10kHz-150kHz): 10V (150kHz-80MHz) IEC61000-4-16 (CS): 3V (10kHz-150kHz): 10V (150kHz-80MHz) IEC61000-4-16 (CSm): and code conduction; 30V (cont.), 300V (1s) | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall) | Operating Temperature: -40 to 85°C Storage Temperature: -45 to 85°C Ambient Relative Humidity: 5 to 95% (non-condensing) | | | | |
| € | i RC- | -IES0008E | DIN Rail Unmanaged Industrial Switch RJ45 Ports: 8 10/100/1000Base-Tx DC:12-36V | | Power Terminal: 5-pin 3.81mm-spacing plug-in terminal block Full load power consumption: <4W Overload Protection: Support Reverse Connection Protection: Support Redundancy Protection: Support | Power LED: PWR Interface LED: RJ45(Link&ACT) , Fiber(Link&ACT) | Housing: Metal, fanless Protection Class: IP40 Dimensions: 101mm*87mm*41mm (L*W*H) Weight: 0.45kg Mounting: DIN-Rail or Panel mounting | MAC Table: 8K Packet Buffer: 2M Packet Forwarding Rate: 11.904Mpps Switching Delay: <5us | IEEE 802.3 10Base-T IEEE 802.3u 100Base-T IEEE 802.3ab 1000Base-T | EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air) IEC61000-4-3 (RS): 10V/m (80MHz-2GHz) IEC61000-4-4 (EFT): Power Port: ±4kV, Data Port: ±2kV IEC61000-4-4 (EFG): Power Port: ±2kV/JM, ±4kV/CM; Data Port: ±2kV IEC61000-4-6 (CS): 3V (10k1z-150kHz); 10V (150kHz-80MHz) IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s) | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall) | Operating Temperature: -30 to 75°C Storage Temperature: -45 to 85°C Ambient Relative Humidity: 5 to 95% (non-condensing) | | | | |

Unmanaged Industrial PoE Switch

| | | 21.6 | Specification | | | | | | | |
|----------------|--|--------------------|--|---|---|--|--|--|--|---|
| S/N Model | Product Description | Picture | Power | LED | Physical property | Switching characteristics | Standard | Industrial standard | reliable prediction | environmental requirement |
| 1 RC-IES1014PF | DIN Rail Unmanaged Switch Fiber Ports: 1.1000Base-X (SFP) RJ45 Ports: 5.10/100/1000Base-Tx with 4 PoE Ports | © TITLE | Power Terminal: 5-pin 3.81mm-spacing plug-in terminal block Full load power consumption: < 4W (POE: 75W) Overload Protection: Support Reverse Connection Protection: Support Redundancy Protection: Support POE function (optional): portsIEEE 802.3 af: Supported 15.4W (IEEE 802.3 af: Supported 30W | Power LED: PWR Interface LED: RJ45(Link&ACT) , Fiber(Link&ACT) | Housing: Metal, fanless Protection Class: IP40 Dimensions: 134mm*90mm*30MM(L*W*H) Weight: 0.50kg Mounting: DIN-Rail or Panel mounting | MAC Table: 4K Packet Buffer: 1M Packet Forwarding Rate: 8.928Mpps Switching Delay: <5us | IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3ab 1000BASE-T IEEE 802.3z 1000Base-X | EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: IEC61000.4-2 (ESD): ±8kV (contact), ±15kV (air) IEC61000.4-3 (RS): 10V/m 80MHz-2c3rb; IEC61000.4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV IEC61000.4-4 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV IEC61000.4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-20MHz) IEC61000.4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-20MHz) IEC61000.4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-20MHz) | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall) | Operating Temperature: -40 to 85°C Storage Temperature: -45 to 85°C Ambient Relative Humidity: 5 to 95% (non-condensing) |
| 2 RC-IES2028PF | DIN Rail Unmanaged Switch Fiber Ports: 2 1000Base-X (Combo) RJ45 Ports: 8 10/100/1000Base-Tx with 8 PoE Ports | HHH ** | Power Terminal: 4-pin 5.08mm-spacing plug-in terminal block Full load power consumption: < 6W (POE:< 120W) Voerload Protection: Support Reverse Connection Protection: Support Redundancy Protection: Support POE function (optional): portsIEEE 802.3 af: Supported 15.4W IEEE 802.3 as: Supported 30W | Power LED: PWR Interface LED: RJ45(Link&ACT) , Fiber(Link&ACT) | Housing: Metal, fanless Protection Class: IP40 Dimensions: 175mm*100mm*45MM(L*W*H) Weight: 0.8kg Mounting: DIN-Rail or Panel mounting | MAC Table: 16K Packet Buffer: 4M Packet Forwarding Rate: 4.166Mpps Switching Delay: <5us | IEEE 802.3 10Base-T IEEE 802.3u 100Base-T IEEE 802.3u 1000Base-T IEEE 802.3z 1000Base-X | EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: IEC61000.4-2 (ESD): ±8kV (contact), ±15kV (air) IEC61000.4-3 (RS): 10/Vm (BOMHz-2CeNtz) IEC61000.4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV IEC61000.4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM): Data Port: ±2kV IEC61000.4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM): Data Port: ±2kV IEC61000.4-16 (Common mode conduction): 30V (cont.), 300V (1s) | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall) | Operating Temperature: -40 to 85°C Storage Temperature: -45 to 85°C Ambient Relative Humidity: 5 to 95% (non-condensing) |
| 3 RC-IES2008PF | DIN Rail Unmanaged Switch Fiber Ports: 2 1000Base-X (SFP) RJ45 Ports: 8 10/100/1000Base-TX with 8 PoE Ports | | Power Terminal: 4-pin 5.08mm-spacing plug-in terminal block Full load power consumption: < 6W (POE:< 120W) Voerload Protection: Support Reverse Connection Protection: Support Redundancy Protection: Support POE function (optional): portstEEE 802.3.af: Supported 15.4W (EEE 802.3.af: Supported 30W) | Power LED: PWR Interface LED: RJ45(Link&ACT) , Fiber(Link&ACT) | Housing: Metal, fanless Protection Class: IP40 Dimensions: 166mm*100mm*44.5MM(L*W*H) Weight: 0.8kg Mounting: DIN-Rail or Panel mounting | MAC Table: 16K Packet Buffer: 2M Packet Forwarding Rate: 14.88Mpps Switching Delay: <5us | IEEE 802.3 10Base-T IEEE 802.3u 100Base-T IEEE 802.3ub 1000Base-T IEEE 802.3ub 1000Base-T | EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: IEC61000.4-2 (ESD): ±8kV (contact), ±15kV (air) IEC61000.4-3 (RS): 10V/m (60MHz-2GHz) IEC61000.4-4 (EFT): Power Port: ±2kV/DM, ±4kV/CM): Data Port: ±2kV IEC61000.4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM): Data Port: ±2kV IEC61000.4-5 (SC): 3V (10kt-150kHz): 10V (150kHz-260MHz) IEC61000.4-16 (Common mode conduction): 30V (cont.), 300V (1s) | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall) | Operating Temperature: -40 to 85°C Storage Temperature: -45 to 85°C Ambient Relative Humidity: 5 to 95% (non-condensing) |
| 4 RC-IES2028PR | Desktop Unmanaged Switch Fiber Ports: 2 1000Base-X (Combo) R145 Ports: 8 10/100Base-Tx with 8 PoE Ports | - H UII | Power Terminal: 10 A plug Full load power consumption: <10W (PDE: <120W) Overload Protection: Support Reverse Connection Protection: Support Redundancy Protection: Support POE function (optional): portsIEEE 802.3 af: Supported 15.4W IEEE 802.3 as: Supported 30W | Power LED: PWR Interface LED: RJ45(Link&ACT), Fiber(Link&ACT) | Housing: Metal, fanless Protection Class: IP40 Dimensions: 280mm*200mm*44.5MM(L*W*H) Weight: 3kg Mounting: Rack mouting | MAC Table: 16K Packet Buffer:4M Packet Forwarding Rate: 4.166Mpps Switching Delay: <5us | IEEE 802.3 10Base-T IEEE 802.3u 100Base-T IEEE 802.3ab 1000Base-T IEEE 802.3z 1000Base-X | EMI: FCC CFR47 Part 15, ENS5022/CISPR22, Class A EMS: IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air) IEC61000-4-3 (RS): 10V/m (80MHz-2GHz) IEC61000-4-4 (EFT): Power Port: ±4kV. Data Port: ±2kV IEC61000-4-6 (SS): 3V (10kHz-150kHz); 10V (150kHz-20MHz) IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-20MHz) IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-20MHz) | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall) | Operating Temperature: -40 to 85°C Storage Temperature: -45 to 85°C Ambient Relative Humidity: 5 to 95% (non-condensing) |
| 5 RC-IES2008PR | Desktop Unmanaged Switch Fiber Ports: 2 1000Base X (SFP) RJ45 Ports: 8 10/100/1000Base-Tx with 8 PoE Ports | | Power Terminal: 10 A plug Full load power consumption: <12W (POE:<120W) Overload Protection: Support Reverse Connection Protection: Support Redundancy Protection: Support POE function (optional): portsleEE 80.2.3 af: Supported 15.4W IEEE 802.3 as: Supported 30W | Power LED: PWR Interface LED: RJ45(Link&ACT) , Fiber(Link&ACT) | Housing: Metal, fanless Protection Class: 280mm*200mm*44.5MM (L*W*H) Weight: 3kg Mounting: Rack mouting | MAC Table: 16K Packet Buffer:2M Packet Forwarding Rate: 14.88Mpps Switching Delay: <5us | IEEE 802.3 10Base-T IEEE 802.3u 100Base-T IEEE 802.3ab 1000Base-T IEEE 802.3z 1000Base-X | EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air) IEC61000-4-3 (RS): 10V/m (80MHz-Z6Hz) IEC61000-4-4 (EFT): Power Port: ±4kV, Data Port: ±2kV IEC61000-4-6 (SI): 3V (10kHz-150kHz); 10V (150kHz-20MHz) IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-20MHz) IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-20MHz) | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fal | Operating Temperature: -40 to 85°C Storage Temperature: -45 to 85°C Ambient Relative Humidity: 5 to 95% (non-condensing) |
| 6 RC-IES4416PR | Rack mount Unmanaged Switch Fiber Ports: 4 1000Base-X (Combo) RJ45 Ports: 16 10/100Base-Tx with 16 PoE Ports | | Power Terminal: 10 A plug Full load power consumption: <15W (POE:<200W) Rowload Protection: Support Reverse Connection Protection: Support Redundancy Protection: Support POE function (potional): portslEEE 80.2.3.af: Supported 15.4W IEEE 802.3.af: Supported 30W | Power LED: PWR Interface LED: RJ45(Link&ACT) , Fiber(Link&ACT) | Housing: Metal, fanless Protection Class: IP40 Dimensions: 430mm*220mm*44.5MM(L*W*H) Weight: 3.6kg Mounting:Rack mouting | MAC Table: 16K Packet Buffer:3M Packet Forwarding Rate: 8.3328Mpps Switching Delay: <5us | IEEE 802.3 10Base-T IEEE 802.3u 100Base-T IEEE 802.3ab 1000Base-T IEEE 802.3z 1000Base-X | EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air) IEC61000-4-3 (RS): 10V/m (80MHz-26Hz) IEC61000-4-4 (EFT): Power Port: ±4kV, Data Port: ±2kV IEC61000-4-5 (Surge): Power Port: ±2kV/M, ±4kV/CM, Data Port: ±2kV IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-20MHz) IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-20MHz) IEC61000-4-6 (COmmon mode conduction): 30V (cont.), 300V (1s) | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall) | Operating Temperature: -40 to 85°C Storage Temperature: -45 to 85°C Ambient Relative Humidity: 5 to 95% (non-condensing) |
| 7 RC-IES4424PR | Rack mount Unmanaged Switch Fiber Ports: 4 1000Base-X (Combo) RJ45 Ports: 24 10/100Base-Tx with 24 PoE Ports | T annual and a | Power Terminal: 10 A plug Full load power consumption: <17W (POE:<40DV) Overload Protection: Support Reverse Connection Protection: Support Redundancy Protection: Support POE function (optional): portsIEEE 802.3 af: Supported 15.4W IEEE 802.3 at: Supported 30W | Power LED: PWR Interface LED: RJ45(Link&ACT) , Fiber(Link&ACT) | Housing: Metal, fanless Protection Class: IP40 Dimensions: 430mm*300mm*44.5MM(L*W*H) Weight: 4.2kg Mounting: Rack mouting | MAC Table: 16K Packet Buffer:4M Packet Forwarding Rate: 9.5232Mpps Switching Delay: <5us | IEEE 802.3 10Base-T IEEE 802.3u 100Base-T IEEE 802.3b 1000Base-T IEEE 802.3z 1000Base-X | EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: IEC61000.4-2 (ESD): ±8kV (contact); ±15kV (air) IEC61000.4-3 (RS): 10V/m (80MHz-2GHz) IEC61000.4-4 (EFT): Power Port: ±4kV: Data Port: ±2kV IEC61000.4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV IEC61000.4-5 (SG): 3V (10kt-150kHz): 10V (150kHz-20MHz) IEC61000.4-16 (Common mode conduction): 30V (cont.); 300V (1s) | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall) | Operating Temperature: -40 to 85°C Storage Temperature: -45 to 85°C Ambient Relative Humidity: 5 to 95% (non-condensing) |

Gigabit Managed Industrial Switch

| | | | | | | | Specifications | | | | | | | |
|-----|--------------|--|---------|---|---|--|--|---|---|---|--|---|--|--|
| S/N | Model | Description | Picture | Power | LED | Physical property | Switching characteristics | Standard | Industrial standard | Reliable prediction | Environmental requirement | Management function | | |
| 1 | RC-IES2204 | DIN Rail Managed Industrial Switch Console Ports: 1 RS-232(RJ45) Fiber Ports: 2 100Base-Fx (FC/SC/ST optional) RJ45 Ports: 4 10/100Base-Tx RJ45 ports DC: 12-36V | H | Power Terminal: 4-pin 5.08mm- spacing plug-in terminal block plug-in terminal block Coversor Prefection: Support Reverse Connection Protection: Support Redundancy Protection: Support Redundancy Protection: | Power LED: PWR Interface LED: RJ45(Link&ACT) , Fiber(Link&ACT) | Housing: Metal, fanless Protection Class: IP40 Dimensions: 105mm*100mm*44.5mm(L*W*H) Weight: 0.65kg. Mounting: DIN-Rail or Panel mounting | I. Forward frame length: maximum 9K bytes 2.MAC. 2K MAC address 3.V.AN: 4K 4.V.AN model: Acess/Trunk/Hybrid 5.QINC: support 6.Bandwidth management: Port speed limit in and out direction 7.Raite-limiting granularity: 0-1G, Step 100Kbps 8.Expand loopbask/PORT: support 8.Expand loopbask/PORT: support 9.Trankl.LACP: 302 FR.SSS_MACP 1.Trankl.LACP: 302 FR.SSS_MACP 11.Loop protection. ERPS.Convergence time < 20ms 11.Loop protection. ERPS.Convergence time < 20ms 12.QOS traffic Classification: support | IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX 100Base-X | EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall) | Operating Temperature: -40 t 85°C Storage Temperature: -40 t 85°C Ambient Relative Humidity: 5 to 95% (non-condensing) | . I.EMS management system: REACOMM-emacluster management system 2 Command line management: Console, Tehet 3 SMMP management: support 3 SMMP management: support 3 SMMP management: support BOOTROM down Xmodem / TFTP upgrade/Supports uploading and upgrading system files and configuration files 6. User management: User classification and password protection, Port Insulate, Network fault warning, Interrupt Power Warn 7. System maintenance: Optical module diagnosis, ping, port statistics | | |
| 2 | RC-IES2204F | DIN Rail Managed Industrial Switch Console Ports: 1 RS-232(RM5) Fiber Ports: 2 10006ase-X (SFP) RM5 Ports: 4 10/100/10006ase-Tx RJ45 ports DC: 12-36V | E | Power Terminal: 4-pin 5.08mm- spacing plug-in terminal block Full load power consumption: < 8W Overload Protection: Support Reverse Connection Protection: Support Redundancy Protection: Support | Power LED: PWR Interface LED: RJ45(Link&ACT), Fiber(Link&ACT) | Housing: Metal, fanless Protection Class: IP40 Dimensions: 105mm*100mm*44.5mm(L*W*H) Weight 10.65kg Mounting: DIN-Rail or Panel mounting | 1. Forward frame length: maximum 9K bytes 2.MAC. 2K MAC address 3.VLAN: 4K 4.VLAN model: Acess/Trunk/Hybrid 5.QINO: support 6. Bandwidth management: Port speed limit in and out direction 7. Rate-leniting granularity: 0–1G. Step 100Kbps 7. Rate-leniting granularity: 0–1G. Step 100Kbps 7. Rate-leniting granularity: 0–1G. Step 100Kbps 10. Tunk/LACP: load balancing. Port protect 10. Spanning tree: STP. RSTP, MSTP 11. Loop protection: ERPS Convergence time < 20ms 11. Loop protection: ERPS Convergence time < 20ms 12. QOS traffic Lossification: support | IEEE 802.3 10Base-T IEEE 802.3u 100Base-T IEEE 802.3u 100Base-T IEEE 802.3z 1000Base-X | EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: IEC61000-42 (ESD): ±8kV (contact), ±16kV (eir) IEC61000-43 (ESD): ±8kV (contact), ±16kV (eir) IEC61000-44 (EFT): Power Port: ±4kV, Data Port: ±2kV IEC61000-44 (EFT): Power Port: ±2kV/MD, ±4kV/CM/. Data Port: ±2kV IEC61000-45 (GS): 3V (10kHz-150kHz): 10V (150kHz-80kHz) IEC61000-4-16 (CS): 3V (10kHz-150kHz): 10V (150kHz-80kHz) IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s) | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall) | Operating Temperature: -40 t 85°C Storage Temperature: -40 t 85°C Ambient Relative Humidity: 5 to 95% (non-condensing) | LEMS management system: REACOMM-emscluster management system C command fine management: Console, Telnet S SMMP management support 4 WEB management support 5 System upgrade: support BOOTROM down Xmodem / TFTP upgrade: Supports uploading and upgrading system files and configuration files 6 User management: User classification and password protection, Port Insulate, Network fault warning, Interrupt Power Wam 7. System maintenance: Optical module diagnosis, ping, port statistics | | |
| 3 | RC-IES2206 | DIN Rail Managed industrial Switch Console Ports: 1 RS-232(R445) Fiber Ports: 2 1006ase+1 (PCSCST optional) RAIM Ports: 6 10/1008ase+1 RAIM ports DC: 12-367 | B | Power Terminal: 4-pin 5.08mm- spacing plug-in terminal block Full lead power consumption: < 8W Overfoad Protection: Support Support Redundancy Protection: Support | Power LED: PWR Interface LED: RJ45(Link&ACT), Fiber(Link&ACT) | Housing: Metal, fantess Protection Class: IP40 Dimensions: 156 165mm*100rm*44.5mm(L*W*H) Weight: 0.758/ Mounting: DIN-Rail or Panel mounting | 1.Forward frame length: maximum 9K bytes 2.MAC; 2K MAC address 3.VLAN: 4K 4.VLAN model: Acess/Trunk/Hybrid 5.GINC): support 6.Bandwidth management: Port speed limit in and out direction 7.Rate-limiting granularity; 0–1G, Step 100Kpps 7.Rate-limiting granularity; 0–1G, Step 100Kpps 7.Rate-limiting granularity; 0–1G, Step 100Kpps 1.Tunk/LACP: load balancing. Port protect 10.Spanning tree: STE RSTP, MSTP 11. Loop protection. ERPS, Convergence time < 20ms 11.QOS traffic Cassification: support | IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX 100Base-X | EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: IEC61000-42 (ESD): ±8/V (contact), ±15/V (air) IEC61000-42 (ESD): ±8/V (contact), ±15/V (air) IEC61000-44 (EFT): Power Port: ±4/V. Data Port: ±2/V IEC61000-45 (EGT): Power Port: ±2/V/DM, ±4/V/CM, Data Port: ±2/V ±2/V IEC61000-45 (CS): 3V (10kHz-150kHz): 10V (150kHz-80MHz) IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (ts) | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall) | Ambient Deletive | LENS management system: REACOMM-emocluster management system 2 command fine management: Console, Telnet 3 SMMP management support 4.WEB management support 5. System upgrade: support BOOTROM down Xmodem / TFTP upgrade: Supports uploading and upgrading system files and configuration files 6. User management: User classification and password protection, Port Insulate, Network fault warning, Interrupt Power Warn 7. System maintenance: Optical module diagnosis, ping, port statistics | | |
| 4 | RC-IES22006F | DIN Rail Managed Industrial Switch Consist Ports: 1 RS-232(R45) Fiber Ports: 2 10008ase X (SFP) RJ45 Forts: 6 10/100/1000Base-Tx RJ45 ports DC: 12-36V | E | Power Terminal: 4-pin 5.08mm- spacing plug-in terminal block spacing plug-in terminal block Cherical Protection: Support Reverse Connection Protection: Support Redundancy Protection: Support | Power LED: PWR Interface LED: RJ45(Link&ACT) , Fiber(Link&ACT) | Housing: Metal, fanless Protection Class: IP40 Dimensions: 1865 185mm*100mm*44.5mm(L*W*H) Weight: 0.786g Mounting: DIN-Rail or Panel mounting | 1. Forward frame length: maximum 9K bytes 2.MAC. 2K MAC address 3.VLAN: 4K 4.VLAN model: Acess/Trunk/Hybrid 5.GINC3 support 6.Bandwidth management: Port speed limit in and out 6.Bandwidth management: Port speed limit in and out 6.Bandwidth management: Port speed limit in and out 7. Rabe-limiting granulaethy 0–1G. Step 100Kbps 6.Expand (loopback/PORT): support 9.Trunk/LACP: load balancing. Port protect 10.Spanning tree: STP, RSTP, MSTP 11. Loop protection: ERPS, Convergence time < 20ms 11. Loop protection: ERPS, Convergence time < 20ms 12. QOS traffic cassification: support | IEEE 802.3 10Base-T IEEE 802.3u 100Base-T IEEE 802.3b 100Base-T IEEE 802.3z 1000Base-X | EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A EM3: 000-4-2 (ESD): #8W (contact), ±15W (pir) IEC61000-4-2 (FS): 10V/m (80WH-2-C6H2) IEC61000-4-2 (FS): 10V/m (80WH-2-C6H2) IEC61000-4-5 (FS): 10V/m (80WH-2-C6H2) IEC61000-4-5 (Surge): Power Port: ±2W/DM, ±4kV/CM, Data Port: ±2W IEC61000-4-5 (CS): 3W (10kHz-150kHz); 10V (150kHz-80MHz) IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s) | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall) | Ambient Deletive | 1.EMS management system: REACOMM-emscluster management system 2.Command line management: Console, Teinet 3.SMMP management: support 4.WEB management support 5.System upgrade: support 8.DOTROM down Xmodem / TFTP upgrade:Supports uploading and upgrading system files and configuration files 6. User management: User classification and passavory drotection. Port Insulate, Network fault warning, Interrupt Power Warn 7.System maintenance: Optical module diagnosis, ping, port statistics | | |
| 5 | RC-IES2306 | DIN Rail Managed Industrial Switch Console Ports: 1 RS-222(R46) Fiber Ports: 3 1008ase-Fr (ROSCIST optional) RJ45 Ports: 8 10/100Base-Tx RJ45 ports DC: 12-36V | | Power Terminal: 4-pin 5.08mm- spacing plug-in terminal block Common Protection: Support Reverse Connection Protection: Support Redundancy Protection: Support | Power LED: PWR Interface LED: RJ45(Link&ACT), Fiber(Link&ACT) | Housing: Metal, fanless Protection Class: IP40 Dimensions: 1865 185mm*106mm*44.5mm(L*W*H) Weight 0.80kg Mounting: DIN-Rail or Panel mounting | 1. Forward frame length: maximum 9K bytes 2.MAC. 2K MAC address 3.VLAN: 4K 4.VLAN model: Acess/Trunk/Hybrid 5.QINO; support 6.Bandwidth management: Port speed limit in and out direction. 7. Rate-leniting granularity 0–1G. Step 100Kbps 7. Rate-leniting granularity 0–1G. Step 100Kbps 10. Trunk/LACP: load balancing. Port protect 10. Spanning tree: ST.P. RSTP, MSTP 11. Loop protection. ERPS, Convergence time < 20ms 11. QOS traffic Lossification: support | IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX 100Base-X | EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A EM3: ECS 1000-4.2 (ESD): #88V (contact), ±158V (sir) ECS 1000-4.2 (ESD): #88V (contact), ±158V (sir) ECS 1000-4.2 (ES): 10V/m (80MH-2-GH2) ECS 1000-4.2 (ES): 10V/m (80MH-2-GH2) ECS 1000-4.5 (ES): 10V (10MH-2-GH2) ECS 1000-4.5 (Surge): Power Port: ±28V/DM, ±48V/CM; Data Port: ±28V ECS 1000-4.5 (CS): 3V (10MH-2-150H4z): 10V (150MH-2-00MHz) ECS 1000-4.16 (Common mode conduction): 30V (cont.), 300V (1s) | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall) | 85°C | 1.EMS management system: REACOMM-emscluster management system 2.Command line management: Console, Telnet 3.SMMP management: support 4.WEB management support 5.System upgrade: support BOOTROM down Xmodem / TFTP upgrade:Supports uploading and upgrading system files and configuration files 6.User management: User classification and passavory drotection. Port Insulate, Network fault warning, Interrupt Power Wam 7.System maintenance: Optical module diagnosis, ping, port statistics | | |
| 6 | RC-IES22008F | DIN Rail Managed Industrial Switch Console Ports: 1 RS-232(RJ45) Fiber Ports: 2 1000Basex (SFP) RJ45 Ports: 2 1010001000Base-Tx RJ45 ports DC: 12-38V | | Power Terminal: 4-pin 5.08mm- spacing plug-in terminal block Full load power consumption: 5 10W Overload Protection: Support Reverse Connection Protection: Support Redundancy Protection: Support | Power LED: PWR Interface LED: RJ45(Link&ACT), Fiber(Link&ACT) | Housing: Metal, fanless Protection Class: IP40 Dimensions: 166mm*106mm*44.5mm(L*W*H) Weight: 0.80g; Mounting: DIN-Rail or Panel mounting | 1. Forward frame length: maximum 9K bytes 2.MAC; 2K MAC address 3.VLAN: 4K 4.VLAN model: Acess/Trunk/Hybrid 5.QINO; support 6. Bandwidth management: Port speed limit in and out direction 7. Rate-lenning granularity: 0-1G, Step 100Kbps 8. Expand loopbask/PORT; support 9. Trantl-LACP; 100 STEP, STEP, Mortodect 1. Trantl-LACP; 100 STEP, STEP, Mortodect 1.1. Loop profeedion. ERPS, Convergence time < 20ms 1.1. Loop profeedion. ERPS, Convergence time < 20ms 1.2. QOS traffe Classification: support | IEEE 802.3 10Base-T IEEE 802.3u 100Base-T IEEE 802.3a 100Base-T IEEE 802.3z 1000Base-X | EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air) IEC61000-4-3 (RS): 10V/m (60kH±-2GHz) IEC61000-4-3 (EFT): Power Port: ±4kV. Data Port: ±2kV IEC61000-4-4 (EGT): Power Port: ±2kV/M. ±4kV/CM. Data Port: ±2kV IEC61000-4-6 (CS): 3V (10kHz-150kHz): 10V (150kHz-80kHz) IEC61000-4-6 (CS): 3V (10kHz-150kHz): 10V (150kHz-80kHz) IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (ts) | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall) | Temperature: -40 t 85°C | LEMS management system: REACOMM-emocluster management system 2. Command line management: Console, Telnet 3. SMMP management: support 4. WEB management: support 5. System upgrade: support BOOTROM down Xmodem / TFTP upgrade: Supports uploading and upgrading system files and configuration files 6. User management: User classification and password protection, Port Insulate, Network fault warning, Interrupt Power Wam 7. System maintenance: Optical module diagnosis, ping, port statistics | | |
| 7 | RC-IES23008F | DIN Rail Managed Industrial Switch Console Ports: 1 RS-232(RJ45) Fiber Ports: 3 1000Base-X (SFP) RJ45 Ports: 8 1010001000Base-Tx RJ45 ports DC: 12-36V | | Power Terminal: 5-pin 5.08mm- spacing plug-in terminal block Full load power consumption: -12W Overload Protection: Support Reverse Connection Protection: Support Redundancy Protection: Support | Power LED: PWR Interface LED: RJ45(Link&ACT), Fiber(Link&ACT) | Housing: Metal, fanless Protection Class: IP40 Dimensions: 165mm·106mm·44.5mm(L*W*H) Weight: 0.80kg Mounting: DIN-Rail or Panel mounting | Forused frame length: maximum 9K bytes 2.McC. 2K MAC address 3.VLAN 4K 4.VLAN model: AcessTrunkHybrid 5.QINC3 support 6.Bandwidth management: Port speed limit in and out direction 7.Rate-limiting granularity: 0-1G, Step 100Kbps 8.Expand loopback(PORT): support 9.TrunkLACP: dad balancing. Port protect 10.Spanning tree: STP, RSTP, MSTP 10.DS particular 4.DS protection of the port of the po | IEEE 802.3 10Base-T IEEE 802.3u 100Base-T IEEE 802.3b 100Base-T IEEE 802.3z 1000Base-X | EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air) (EC61000-4-2 (FS): 10V/m (60kH±-2GHz) (EC61000-4-4 (EFT): Power Port: ±4kV. Data Port: ±2kV (EC61000-4-4 (EGT): Power Port: ±2kV/MD.±4kV/CM/. Data Port: ±2kV (EC61000-4-6 (CS): 3V (10kHz-150kHz): 10V (150kHz-80kHz) (EC61000-4-6 (CS): 3V (10kHz-150kHz): 10V (150kHz-80kHz) (EC61000-4-16 (Common mode conduction): 30V (cont.), 300V (ts) | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall) | Operating Temperature: -40 t 85°C Storage Temperature: -40 t 85°C Ambient Relative Humidity: 5 to 95% (non-condensing) | . LEMS management system: REACOMM-emscluster management system 2 Command line management: Onsoie, Teihet 3 SMMP management: support 3 SMMP management: support 4 WEB management: support 6 SMMP system files and configuration files 6 User management: User classification and password protection, Port Insulate. Network fault warning, Interrupt Power Wam 7. System maintenance: Optical module diagnosis, ping, port statistics | | |
| 8 | RC-IES24008F | DIN Rail Managed Industrial Switch Console Ports: 1 RS-232(R45) Fiber Ports: 4 1000Base X (SFP) RJ45 Forts: 8 10/100/1000Base-Tx RJ45 ports DC: 12-36V | | Power Terminal: 5-pin 5.08mm- spacing plug-in terminal block Full load power consumption: <13W Overload Protection: Support Reverse Connection Protection: Support Redundancy Protection: Support | Power LED: PWR Interface LED: RJ45(Link&ACT), Fiber(Link&ACT) | Housing: Metal, fanless Protection Class: IP40 Dimensions: : : : 179mm*10mm*45mm(L*W*H) Weight: 0.80g/ Mounting: DIN-Rail or Panel mounting | 12.005 raffic classification: suncort 1.Forward frame length: maximum 9K bytes 2.MAC; 2K MAC address 3.VLAN: 4K 4.VLAN modet. Acess/Trunk/Hybrid 6.Bandwidth management: Port speed limit in and out direction 7.Ratie-firmiting granularity: 0-1G, Step 100Kbps 8.Expand loopback/PORT): support 9.Trunk/LACP: load balancing. Port protect 10.Spanning trees: 37P. RSTP, Mspre 10 kmpc 11 11.Loop protection: ERPS, Convergence time < 20ms 11.2005 traffic classification: support | IEEE 802.3 10Base-T IEEE 802.3u 100Base-T IEEE 802.3b 100Base-T IEEE 802.3z 1000Base-X | EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: EMS: EMS: EMS: EMS: EMS: EMS: EMS: | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall) | Temperature: -40 t 85°C | LEMS management system: REACOMM-emscluster management system Command line management: Console, Teinet SAMP management support 4.WEB management support 5. System upgrade: support BOOTROM down Xmodem / TFTP insulate, Network fault warning, interrupt Power Warn 7. System maintenance: Optical module degroses, ping, port statistics | | |

| 9 | RC-IES24008PF | DIN Rail Managed Industrial Switch Console Ports: 182-328(R.45) Fiber Ports: 4 1000Base X (SFP) R.45 Ports: 8 10/100/1000Base-Tx PoE RJ45 ports DC: 12-36V | | Power Terminal: 5-pin 5.08mm- spacing plug-in terminal block Full load power consumption: <13W (POE: <120W) | Power LED: PWR Protection Class: IP40 Interface LED: Dimensions: IP40 Dimensions: IP40 Dimensions: IP40 Potentink&ACT), 175mm*100mm*45mm(L*W*H) Weight 1.0% Mounting: DIN-Rail or Panel mounting | I. Foruser frame length: maximum 9K bytes 2. VLAN: 2. VKA Garderss 3. VLAN: 4K 4. VLAN model: AcessTrunk-Hybrid 5. GINC: support 6. Bandwidth management: Port speed limit in and out direction 7. Faste limiting granularity: 0-1G, Step 100Kbps 6. Expand loopback/PCRT; support 9. Expand loopback/PCRT; support 10. Spanning trees: STP, RSTP, MSTP 11. Loop protection: ERPS, Convergence time < 20ms 12. QOS lartific designificants upoport | IEEE 802.3 10Base-T IEEE 802.3u 100Base-T IEEE 802.3u 100Base-T IEEE 802.3z 1000Base-X | EMI: FCC CFR47 Part 15, EN65022/CISPR22, Class A EMS: IEC610004-2 (ESD): ±8kV (contact), ±15kV (air) IEC610004-3 (RS): 10V/m (80Mth2-2GHz) IEC610004-4 (EFT): Power Port: ±4kV, Data Port: ±2kV IEC610004-4 (Surger): Power Port: ±2kVVDM, ±4kVCM, Data Port: ±2kV IEC610004-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) IEC610004-16 (Common mode conduction): 30V (cont.), 300V (1s) | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall) | Storage | 1.EMS management system: REACOMM-emscluster management system 2.Command line management: Corsole, Teinet 3.SNMP management: support 4.WEB management: support 4.WEB management: support 9.WEB management: User dassification and password protection, Port 1.Reulate, Network fault warning, Interrupt Power Warn 7.System maintenance: Optical module diagnosis, ping, port statistics |
|----|---------------|---|---------------|--|--|---|---|--|---|--|--|
| 11 | RC-IES24016F | DIN Rail Managed Industrial Switch Console Ports: 1 RS-232(RJ45) Fiber Ports: 4 1000Base X (SFP) RJ45 Ports: 6 10 1100/1000Base-Tx RJ45 ports DC: 12-36V | | Power Terminal: 4-pin 5.08mm- spacing plug-in terminal block Full load power consumption: <20W Overload Protection: Support Reverse Connection Protection: Support Redundancy Protection: Support | Power LED: PWR Protection Class: IP40 Interface LED: Dimensions: Dimensions: RJ45(Link&ACT). 199/mm1100mm145mm(L*W*H) Fiber(Link&ACT) Weight: 0 986 Mounting: DIN-Rail or Panel mounting | I. Forward frame length: maximum 9k bytes 2.MAC; 2:MAC address 3.VLAN: AK 4.VLAN model: AcessTrunk/Hybrid 5.GINC: support 6.Bandwidth management: Port speed limit in and out direction. 7. Rate-limiting paraularity; 0-1G, Slep 100kbps 7. Rate-limiting paraularity; 0-1G, Slep 100kbps 7. Bandwidth (PDT): support 10.Tuns/VLACP: load balancing. Port protect 10.Spanning trees: STP, RSTP, MSTP 11. Loop protection: ERPS, Convergence time < 20ms 12.QOS lartific designificants. | IEEE 802.3 10Base-T IEEE 802.3u 100Base-T IEEE 802.3a 100Base-T IEEE 802.3z 1000Base-X | EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: IEC61000.4-2 (ESD): ±8kV (contact), ±15kV (air) IEC61000.4-3 (RS): 10V/m (80Mth±2-CHz) IEC61000.4-4 (EFT): Power Port: ±4kV: Data Port: ±2kV IEC61000.4-4 (SDurge): Power Port: ±2kVIOM, ±4kVCIM, Data Port: ±2kV IEC61000.4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) IEC61000.4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) IEC61000.4-16 (Common mode conduction); 30V (cont.), 300V (1s) | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall) | Storage Temperature: -40 to 85°C | I.EMS management system: REACOMM-emscluster management system 2.Comman line management: Console, Teinet 3.Comman line management: Console, Teinet 3.SMMP management: Support 5.SWMP management: Support 5.System upgnate support 8.DSTROM down Xmodem / TFTP upgrade.Supports uploading and upgrading system files and configuration files 6.User management: User classification and password protection, Port Insulate. Network fault warning, Interrupt Power Warn 7.System maintenance: Optical module diagnosis, ping, port statistics |
| 10 | RC-IES24008R | Desktop Managed Switch Console Ports: 18S-223/RI-45) Fiber Ports: 4 1000Base-X (SFP) RJ46 Forts: 8 10/100/1000Base-Tx RJ45 ports AC: 109-240V | ш | Power Terminal: 10 A plug Full load power consumption: < 13W Overload Protection: Support Reverse Connection Protection: Support Redundancy Protection: Support development of the Protection: Support Redundancy Protection: | Power LED: PWR Protection Class: IP40 Interface LED: Dimensions: Device Commissions: IP40 Dimensions: Device Commissions: Device Commissions: Device Commissions: Device Commissions: Device Commissions: Device Commissions | 1.Forward frame length: maximum 9K bytes 2.MAC: 2K MAC address 3.V.A.N: AK 4.V.LAM model: Acess/Trunk/Hybrid 5.QINIC: support 6.Bandwidth mamagement: Port speed limit in and out direction. 7.Rate: limiting parturbiny; 0~1G, Step 100/bps 7.Rate: limiting parturbiny; 0~1G, Step 100/bps 7.Rate: limiting parturbiny; 0~1G, Step 100/bps 7.Bate (PST) support 10.Turnk/LACP-load balancing. Port protect 10.Spanning tree: STP, RSTP, MSTP 11.Loop protection: ERPS, Convergence time < 20ms 12.QOS tartific dessification: support | IEEE 802.3 10Base-T IEEE 802.3u 100Base-T IEEE 802.3a 100Base-T IEEE 802.3z 1000Base-X | EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: IEC61000.4-2 (ESD): ±8kV (contact), ±15kV (air) IEC61000.4-2 (RS): 10V/m (80Mthz-2CHz) IEC61000.4-4 (RS): 10V/m (80Mthz-2CHz) IEC61000.4-6 (ST): Power Port. ±4kV, Data Port. ±2kV IEC61000.4-6 (SI): 32 V (10ktz150k4rz): 10V (150ktz-60Mthz) IEC61000.4-6 (CS): 32 V (10ktz150k4rz): 10V (150ktz-60Mthz) IEC61000.4-16 (Common mode conduction): 30V (cont.) 300V (1s) | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall) | Operating Temperature: -40 to 85°C Storage Temperature: -40 to 85°C Ambient Relative Humidity: 5 to 95% (non-condensing) | 1.EMS management system: REACOMM-emscluster management system 2. Command ine management Console, Teinet 3. SNMP management support 4. WEB management support 5. System upgrade support 8. System up |
| 12 | RC-IES24016R | Desklop Managed Industrial Switch Console Ports: 1 RS-232(RJ45) Fiber Ports: 4 1000Base-X (SFP) RJ45 Ports: 6 10 1/100/1000Base-Tx RJ45 ports AC: 100-240V | 10 HIN | Power Terminal: 10 A plug Full load power consumption: < 20W Overload Protection: Support Reverse Connection Protection: Support Redundancy Protection: Support Redundancy Protection: | Power LED: PWR Housing: Metal fanless Protection Class: IP40 Dimensions: Pw9 Dimensions: Pw9 Dimensions: 280mm200mm*45.mm(L*W*H) Weight 2 && Mounting: Rack mouting | 1. Forward frame length: maximum 9K bytes 2.MAC. 2: MAC address 3.V.A.N: AK 4.V.A.N model: Acess/Trunk/Hybrid 5.QINC2 support 6.Bandwidth mamagement: Port speed limit in and out direction. 7. Rate lenniting granularity; 6–1G, Step 100Kbps 6.Expand loopback/PORT; support 6.Expand loopback/PORT; support 6.Expand loopback/PORT; MORTP 7. Rate lenniting granularity; 6–1G, Step 100Kbps 6.Expand loopback/PORT; support 6.Expanding trees: STP, RSTP, MSTP 7. Loop protection: ERPS, Convergence time < 20ms 7. QOS lartific classification: support 7. QOS lartific classification: support 7. QOS lartific classification: support | IEEE 802.3 10Base-T IEEE 802.3u 100Base-T IEEE 802.3a 100Base-T IEEE 802.3z 1000Base-X | EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: IEC61000.4-2 (ESD): ±8kV (contact), ±15kV (air) IEC61000.4-3 (RS): 10V/m (80MHz-2GHz) IEC61000.4-4 (EFT): Power Port: ±4kV: Data Port: ±2kV IEC61000.4-4 (SINSP): Power Port: ±2kV/MD, ±4kV/CM, Data Port: ±2kV IEC61000.4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) IEC61000.4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) IEC61000.4-16 (Common mode conduction); 30V (cont.); 300V (1s) | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall) | Operating Temperature: -40 to 85°C Storage Temperature: -40 to 85°C Ambient Relative Humidity: 5 to 95% (non-condensing) | 1.EMS management system: REACOMM-emsoluster management system 2. Command ine management Corsole, Teinet 3. SNMP management support 4. WEB management support 5. System upgrade support 8. System upgrade support 8. System upgrade support 8. System upgrade support 8. System upgrade protection in FIFP upgrade. Supports uploading and upgrading system files and configuration files 6. User management. User classification and password protection, Port Insulate. Network fault warming, Interrupt Power Warm 7. System maintenance: Optical module diagnosis, ping, port statistics |
| 13 | RC-IES24016PR | Desktop Managed Industrial Switch Console Ports: 18S-228(R.145) Fiber Ports: 4 10008ase X (SPE) R.145 Ports: 16 10/100/1000Base-Tx PoE R.J45 Ports AC: 100-240V | · | Power Terminal: 10 A plug Full load power consumption: < 20W Courtoad Prolection: Support Reverse Connection Support Reverse Connection Protection: Support Redundancy Protection: Support PocE function(optional): portsIEEE 802.3 af: Supported 15.4W IEEE 802.3.at: Supported 30W | Power LED: PWR Housing: Metal. fanless Profection Class: IP40 Interface LED: Ru45(Link&ACT) . University of the Common Co | I-Forward frame length: maximum 9K bytes 2 MAC. 2: MAC Address 3 VLAN: AK 4 VLAN model: AcessTrunk/Hybrid 5. QINC3: support 6. Bandwidth management: Port speed limit in and out direction 7. Rate limiting granularity: 0–1G, Step 100Kbps 6. Expand loopback(PCRT): support 8. Expand loopback(PCRT): support 9. Trunk/LACP: goad balancing: Port protect 10. Trunk/LACP: goad balancing: Port protect 11. Loop protection: ERPS Convergence time < 20ms 11. Loop protection: ERPS Convergence time < 20ms 12. QOS largic leassification: support | IEEE 802.3 10Base-T IEEE 802.3u 100Base-T IEEE 802.3a 100Base-T IEEE 802.3z 1000Base-X | EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: IEC61000.4-2 (ESD): ±8kV (contact), ±15kV (sir) IEC61000.4-3 (RS): 10V/m (80MHz-2GHz) IEC61000.4-4 (EFT): Power Port: ±4kV: Data Port: ±2kV IEC61000.4-4 (SIrus): Power Port: ±2kVVIM, ±4kVCM, Data Port: ±2kV IEC61000.4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) IEC61000.4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) IEC61000.4-16 (Common mode conduction); 30V (cont.), 300V (1s) | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall) | Operating Temperature: -40 to 85°C Storage Temperature: -40 to 85°C Ambient Relative Humidity: 5 to 95% (non-condensing) | I.EMS management system: REACOMM-emscluster management system 2.Command ine management. Console, Teinet 3.SMMP management. Support 3.SMMP management. Support 4.WEB management. support 8.System uporpate support 8.System uportale support 8.System uportal |
| 14 | RC-IES22424PR | Desktop Managed Industrial Switch Console Ports: 18S-232(R.145) Fiber Ports: 4 1000Base-X (Combo) 2 1000Base-X (Combo) 2 1000Base-X (SFP) RJ45 Prot 2 10 110001000Base-TX POE RJ45 Ports AC: 100-240V | · | Power Terminal: 10 A plug Full load power consumption: < 22W (POE: < 400V) Overload Protection: Support Reverse Connection Protection: Support Redundancy Protection: Interclince(potional): portalEEE 802.3 af: Supported 15.4W IEEE 802.3.at: Supported 30W | Power LED: PWR Protection Class: IP40 Interface LED: Dimensions: IP40 Interface LED: Dimensions: Dimensions: PWR Protection Class: IP40 Interface LED: ASomn*202mm*44.5mm(L*W*H) Weight: 38 Mounting: Rack mouting | 1. Forward frame length: maximum 9K bytes 2. MAC. 2: MAC address 3. V.A.N: AK 4. V.LAN model: Acess/Trunk/Hybrid 5. GINC; support 6. GINC; support 7. Rate-limiting granularity. 0-1G. Step 100Kbps 6. Expand loopback/CPRT; support 9. Trunk/LACP: load balancing. Port protect 10. Spanning tree: STP. RSTP, MSP. 11. Loop protection: EMPS-Convergence time < 20ms 11. Loop protection: EMPS-Convergence time < 20ms 11. Forward frame length: maximum 9K bytes 1. | IEEE 802.3 10Base-T IEEE 802.3u 100Base-T IEEE 802.3ab 1000Base-T IEEE 802.3z 1000Base-X | EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: IEC610004-2 (ESD): ±8kV (contact), ±15kV (air) IEC610004-3 (RS): 10V/m (80MHz-2GHz) IEC610004-4 (EFT): *Power Port: ±4kV: Data Port: ±2kV IEC610004-4 (EFT): *Power Port: ±2kV/M, ±4kV/M/, Data Port: ±2kV IEC610004-4 (CS): 3V (10ktz-150kHz); 10V (150kHz-50MHz) IEC610004-5 (CS): 3V (10ktz-150kHz); 10V (150kHz-50MHz) IEC610004-16 (Common mode conduction): 30V (cont.), 300V (1s) | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall) | Operating Temperature: -40 to 85°C Storage Temperature: -40 to 85°C Hombient Relative Humidity: 5 to 95% (non-condensing) | 1.EMS management system: REACOMM-emscluster management system 2. Command ine management Corsole, Teinet 3. Command ine management corsole, Teinet 3.8NMP management support 4. WEB management support 5. System upgrade support 8. System upgrade support 8. System upgrade support 8. System upgrade support 8. System upgrade in 1. System 1. Syste |
| 15 | RC-IES22424R | Desktop Managed Industrial Switch Console Ports: 182-22(RJ45) Fiber Ports: 4 1000Base-X (Combo) 2 1000Base-X (SFP) RJ45 Ports: 20 10/100/1000Base-Tx RJ45 ports AC: 100-240V | . ***** | Power Terminal: 10 A plug Full load power consumption: < 22W Overload Protection: Support Reverse Connection Protection: Support Redundancy Protection: Support and Protection: | Power LED: PWR Protection Class: IP40 Interface LED: Dimensions: IP40 Interface LED: Dimensions: Dimensions: PReficien&ACT) 430mr/202mm*44.5mm(L*W*H) Weight: 238 Mounting: Rack mouting | 1.Forward frame length: maximum 9K bytes 2.MAC.2: KM Caddress 3.V.A.N: AK 4.V.A.N model: Acess/Trunk/Hybrid 5.GINC2: support 6.Bandwidth management: Port speed limit in and out 6.Bandwidth management: Port speed limit in and out 6.Bandwidth management: Port speed limit in and out 7.Fatel-imiting granularity; 0–1G, Step 100Kbps 8.Expand loophack/(PORT): support 9.Trunk/IACP: load balancing. Port protect 10.Spanning ree: STP, RSTP, MSTP 11. Loop protection: ERPS, Convergence time < 20ms 12.QOS traffic dessification: support | IEEE 802.3 10Base-T IEEE 802.3u 100Base-T IEEE 802.3ab 1000Base-T IEEE 802.3z 1000Base-X | EMI: FCC CFR47 Part 15, EN55022/CISPR22, Class A EMS: IEC61000-4-2 (ESD): ±8kV (contact); ±15kV (air) IEC61000-4-3 (RS): 10V/m (80MHz-2GHz) IEC61000-4-4 (RF): F0ver Port: ±4kV; Data Port: ±2kV IEC61000-4-6 (GS): 32 V (10kHz-150kHz); 10V (150kHz-80MHz) IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz) IEC61000-4-6 (Common mode conduction): 30V (cont.), 300V (1s) | Machinery: IEC60068-2-6 (Vibration) IEC60068-2-27 (Shock) IEC60068-2-32 (Free Fall) | Operating Temperature: -40 to 85°C Storage Temperature: -40 to 85°C Service of the service of th | 1.EMS management system: REACOMM-emscluster management system 2. Command line management Console, Telnet 3.SNMP management support 4.WEB management support 5. System unggrade support 8. System unggrade system files and configuration files 6. User management. User classification and password protection, Port insulate, Network fault warning, Interrupt Power Warn 7. System maintenance: Optical module diagnosis, ping, port statistics |