RIS5010 series

10-port 100M industrial-grade rail-type managed Ethernet switch

- Supports 8 100M Ethernet interfaces and 2 optional 100M optical ports, providing users with flexible networking methods;

- 100M electrical port 10/100M adaptive, full/half duplex, MDI/MDIX adaptive mode;

- Support multiple redundancy protocols such as ERPS / PVTRING / MSTP/RSTP/STP;

- Supports management functions such as QoS, VLAN, IGMP Snooping;

- Supports security technologies such as HTTPS/SSL, SSH, user classification, port isolation, IPSG, arp attack prevention, etc.

- Supports CLI, Telnet, Web multiple management methods and network management software based on SNMPv1/v2c/v3

- The power supply supports overload protection, reverse connection protection and redundancy protection (LV);

- IP40 protection level, fanless cooling ;

- Adopting industrial-grade power supply design, a variety of power input solutions are available to meet users' flexible applications;

- -40℃~75℃ operating temperature, meeting industrial application scenarios .
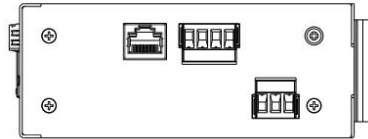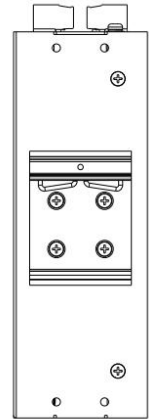
- Default rail, optional wall mounting;

RIGOSYS

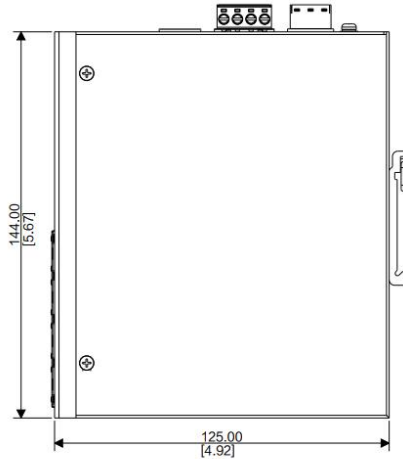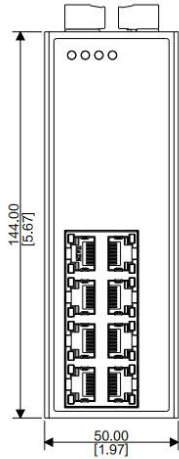## Switch Parameters

Network Interface

Port description	RIS5010-8T : supports 8 100M electrical ports
	RIS5010-8T2F : supports 8 100M electrical ports and 2 100M SC/ST/FC optical ports
	RIS5010-8T2 P: supports 8 100M electrical ports and 2 100M SFP slots

Power Supply

Power input	Low-voltage DC power supply: dual redundant power supply, range DC18~48V
	High-voltage AC and DC power supply: single circuit, 85-265VAC/100-300VDC isolated power supply
Power consumption	<15W
Protect	Support overload protection, reverse connection protection and redundancy protection (LV)

Technology

Ethernet specifications	IEEE 802.3: 10Base-T
	IEEE 802.3u: 100Base-TX and 100Base-FX
	IEEE 802.3x: Flow Control
	IEEE 802.3ad: LACP (Port Aggregation Control Protocol)
	IEEE 802.1D: STP (Spanning Tree Protocol)
	IEEE 802.1p: COS (Class of Service)
	IEEE 802.1Q: VLAN tag
	IEEE 802.1w for RSTP (Rapid Spanning Tree Protocol)
	IEEE 802.1s for MSTP (Multiple Spanning Tree Protocol)
	IEEE 802.1AB for LLDP link layer discovery protocol
MAC address table	8K
Priority queue	8
Jumbo frame	10K B ytes
Processing method	store and forward
Switch Features	Exchange delay time: <10μs
	Switch backplane bandwidth: 5.6 Gbps
	Packet buffer: 4.1Mbit
	Number of VLANs: 4094
	IGMP multicast group: 512
	Support port speed limit
Security features	ACL access control list
	CPU attack defense
	A RP security configuration
	IP source attack defense
	MAC-based port security mechanism
	DHCP-Snooping
	HTTPS / SSH Enhanced Network Security Protocol
	RADIUS security certification
	Network isolation via VLAN (802.1Q)

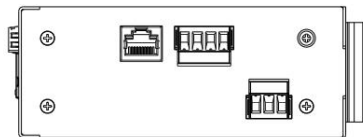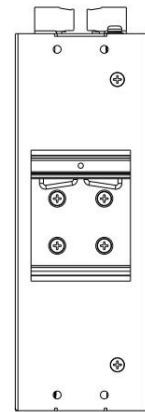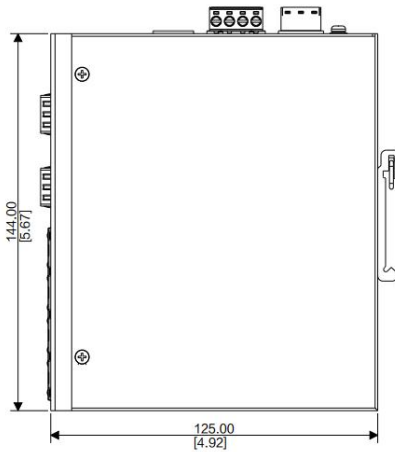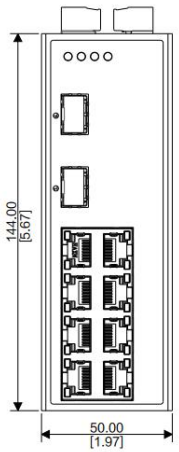|	
	SNMP v1/v2c/v3 encryption authentication and access control
Software features	Support IPv4, IPv6 static unicast routing
	Support DHCP server/DHCP client
	Support DHCP snooping
	Support MSTP/RSTP/STP
	Support pvtring : switching time <50ms
	Support QoS (802.1p/DSCP) traffic priority management
	Supports VLAN (802.1Q) with VLAN tag
	Support Q INQ
	Support IGMP v1/v2/v3 (IGMP snooping) multicast management
	Support LLDP
	Supports SNMP v1/v2/v3 encryption authentication and access control
	Support RMON
	Support ACL
	Support port isolation
	Support port speed limit
	Support port loopback detection
	Support storm suppression
	Support port mirroring
	Support port aggregation (Trunk/LACP)
	Support port traffic monitoring and traffic statistics
	Support static MAC binding
	Support port flow control function
	Support SNTP network clock
	Support RTC
	Support Syslog
	Support VTC
	Support TACACS+
Device management	Support SNMP
	Support WEB network management (support HTTPS)
	Support DHCP-client
	Support user password protection
	Support command line configuration
Network redundancy	MSTP/RSTP/STP
	pvtring
	ERPS
Warning/monitoring system	Fault alarm via relay output
	Record and browse event Syslog reporting through system logging
	Support SNMP to issue event warning notifications through traps
Console control port	RJ45 port, RS-232 control line, 115200bps-8-N-1
Mechanical Properties	
Dimensions (W x H x D) mm	50x 125x144
Protection level	IP40

| Installation method	Default rail, optional wall mounting
Weight (g)	≤1KG
Environment	
Storage temperature	-40~85 ℃
Operating temperature	-40~75 ℃
Working humidity	5%~95% no condensation
Certification	
EMI	FCC Part 15, CISPR (EN55022) class A
EMS	EN61000-4-2 (ESD) EN61000-4-3 (RS) EN61000-4-4 (EFT) EN61000-4-5 (Surge) EN61000-4-6 (CS)	Contact discharge 6 kV, air discharge 8 Kv 10V/m，80MHz~1GHz Signal terminal 1 kV, power input terminal 2 kV Power input: 2kV (line/ground), 1kV (line/line) 10V, 150kHz~80MHz
Impact	IEC60068-2-27
Fall	IEC60068-2-32
Shock	IEC60068-2-6
Security Level	EN 62368-1 (LVD)
Warranty	5 years

Switch Size

RIS5010-8T series

RIS5010-8T2P Series

RIS5010-8T2F series
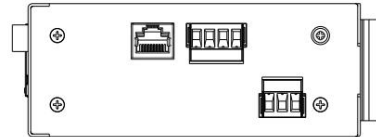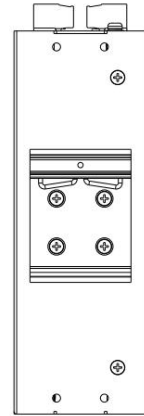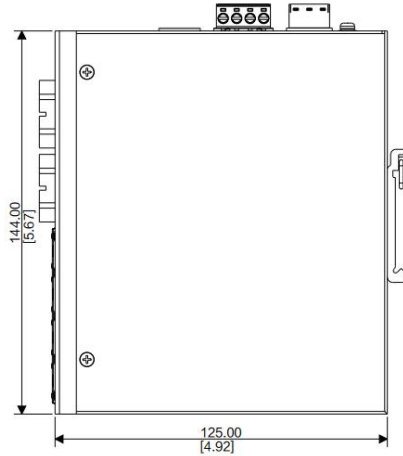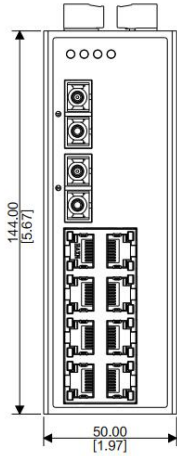
Product Model

model	describe
RIS5010-8T - LV	Industrial grade network managed 100M switch, 8 100M electrical ports, dual DC12~DC48V power supply
RIS5010-8T 2P - LV	Industrial grade network managed 100M switch, 8 100M electrical ports, 2 100M S FP slots, dual DC12~DC48V power supply
RIS5010-8T 2F - LV	Industrial grade network managed 100M switch, 8 100M electrical ports, 2 100M optical ports (1x9 module SC/ST/FC optional), dual DC12~DC48V power supply
RIS5010-8T - H V	Industrial grade network managed 100M switch, 8 100M electrical ports, single 85-265VAC/100-300VDC isolated power supply
RIS5010-8T 2P - H V	Industrial grade network managed 100M switch, 8 100M electrical ports, 2 100M S FP slots, single 85-265VAC/100-300VDC isolated power supply
RIS5010-8T 2F - H V	Industrial grade network managed 100M switch, 8 100M electrical ports, 2 100M optical ports (1x9 module SC/ST/FC optional), single 85-265VAC/100-300VDC isolated power supply