WINTOP OPTICAL

Video Converters

Media Converters

Outdoor Ethernet Switches

Optical Transceivers

Industrial Ethernet Switches

WINTOP OPTICAL

Distributor：

Product Catalog

SHENZHEN WINTOP OPTICAL TECHNOLOGY CO., LTD.

Contents
Product Catalog

Product **C**atalog

C OMPANY INTRODUCTION

|COMPANY |INTRODUCTION|

Established in 2004, Shenzhen Wintop Optical Technology Co., Ltd. is a leading technology company for active equipment of Ethernet fiber access networks. Wintop develop and manufacture full range fiber optic transmission products , including SFP/SFP+/XFP Optical Transceivers, Fiber media converter, Video to fiber converter, Outdoor Ethernet switches, PoE Ethernet switches and Industrial Ethernet switches, and we provide OEM (ODM) services.

Since our foundation, we have opened the market with reliable product quality, reasonable price, and excellent after-sale services. As a result of years of industry experience and accumulation, Wintop brand series products have covered various fields in fiber-optic transmissions. Our sales at home and abroad keep increasing, and our products have been exported to more than 20 countries and regions. We have a large collection of senior industry talents, mature market channels and good business honors.

For many years, Wintop Photoelectric Technology Co., Ltd has established good cooperation with Shenzhen University, Zhejiang University, China Jiliang University and other universities that possess a certain authority and contribution in the field of optical communication. We boast a number of middle and high ranking technicians and management personnel who are engaged in R&D and sales for many years. They equip our company with exquisite technology, rigorous scholarship, a high degree of professional ethics as well as an efficient management level.

Going forward, our focus will continue to be delivering world-class, industrial data communications technologies known for rugged reliability, ease of use, and ease of implementation.

INTRODUCTION INTRODUCTION

INTRODUCTION

SR Family

Overview:

The SR family is a family of switches that provide a rugged, easy-to-use, highly secure infrastructure for harsh environments, with a wide range of industrial Ethernet switches with features such as industrial-grade reliability, network redundancy, seamless integrated security, and best price-to-performance ratio. Moxa provides options such as managed, unmanaged, Gigabit Ethernet, PoE, IEC 61850-certified, EN50155-certified, and rackmounting to provide users with best-fit solutions.

Features:

CE、FCC、RoHS、UL、ANATEL and extend to IEC61850-3、EN50155、C1D2、IEEE1613、IEC60079-11、IECEx, etc.
Wide temperature: -40°C ~ 85 °C (- 40 ~ 185 °F)
Aluminum housing, IP40 protection (extend to IP67)
Support PoE function (PSE or PD optional)
Match the industrial communication network need for Industrial 4.0 and big data time.

RS103A Series

2/3 - port Industrial Media Converters

▸ Up to 2 10/100/1000BaseT(X) and 1 100/1000BaseF(X)
▸ Redundant dual 12/24/48 VDC power inputs
▸ Supports jumbo frame transmission up to 10 KB
▸ Relay output warning for power failure and port break alarm
▸ DIN-rail mounting ability
▸ -40 to 85°C operating temperature range
▸ PoE/PoE+ option

Overview:

The RS103A industrial media converters provide industrial-grade media conversion between 10/100/1000BaseT(X) and 1000BaseFX (SC/ST connectors). The RS103A converters' reliable industrial design is excellent for keeping your industrial automation applications running continuously, and each RS103A converter comes with a relay output warning alarm to help prevent damage and loss.

The RS103A series industrial media converters is designed for harsh industrial environments and comply with FCC, UL, and CE standards. The RS103A series supports an wide operating temperature from -40 to 85°C. All RS103A series converters are subjected to a 100% burn-in test

Dimensions:

Size:（mm）

Front view   side view   Back view   Top view   Vertical view

135.00   81.70
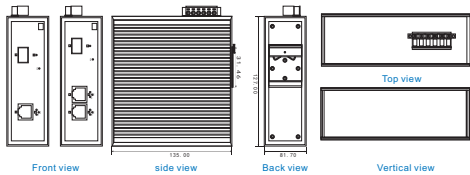
Order information:

Model No	Description	
	10/100/1000BaseT(X)	1000BaseF(X) or SFP
WT-RS-10102G	2	1
WT-RS-10101G	1	1
	10/100BaseT(X)	100BaseF(X) or SFP
WT-RS-10102	2	1
WT-RS-10101	1	1

Specifications:

Interface	Fiber Ports:100BaseF(X) or /1000BaseF(X) or SFP slot Rj45 Ports: 10/100BaseT(X) or 10/100/1000BaseT(X) auto negotiation speed, and auto MDI/MDI-X connection LED Indicators:PWR1,PWD2,L/A,SPD, PoE(option) Alarm Contact:1 relay output with current carrying capacity of 1 A @24 VDC
Switch Properties	MAC Table size:8K Packet Buffer Size:1 Mbit Jumbo Frame Size:10 KB
Power Requirement	Input Voltage:12/24/48/>48 VDC, redundant dual inputs Input Current:24 VDC / 0.6 A Overload Current Protection:Present Connection:2 removable 2-contact terminal blocks Reverse Polarity Protection:Present
Physical Characteristics	Housing:Aluminum，IP40 protection Dimensions:135 x 125 x 45mm (5.3 x 4.9 x 1.8 in) Weight:650g Installation:DIN-rail mounting, Wall mounting
Environmental Limits	Operating Temperature:-40 ~ 85 ℃ (- 40 ~ 185 °F) Storage Temperature:-40 ~ 85 ℃ (- 40 ~ 185 °F) Ambient Relative Humidity:5 ~ 95% (non-condensing)
Standards	EMI : FCC Part 15 Subpart B Class A, EN 61000-6-4(Industrial) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8, IEEE 1613 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6 MTBF （mean time between failures）：305,000 hrs IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT（X）and 100BaseFX IEEE 802.3ab for 1000BaseT（X） IEEE 802.3z for 1000BaseX IEEE 802.3x for Flow Control Processing Type：Store and Forward Flow Control：IEEE 802.3x flow control, back pressure flow control
Warranty	5 years

RS105P Series

5-port PoE Industrial Ethernet Switches

▸ Support 4pcs RJ45 Ethernet ports and 1pcs fiber ports (SC or ST)
▸ PoE ports: 2/3/4/5 (Up to 30 watts output per PoE port)
▸ Supports IEEE 802.3af/IEEE802.3at compliant PoE enabled device
▸ Supports 9.6 KB jumbo frames
▸ Intelligent power consumption detection and classification
▸ Smart PoE over current and short circuit protection
▸ -40 to 85°C operating temperature range

Overview:

RS105P Series PoE Industrial Ethernet Switches come standard with 4 10/100/1000BaseT(x) 802.3af / 802.3at (PoE) compliant Ethernet ports, provide up to 15.4 / 30 watts at 48VDC input per PoE port. When commercial power is not available or is cost-prohibitive to provide locally in some places,

The RS105P series switches allow power to be supplied to the connected devices such as surveillance camera, wireless access point etc. The wide operating temperature range from -40°C to 85°C can satisfy most of operating environment. Therefore, the switch is one of the most reliable choices for PoE Ethernet application.

Dimensions:

Size:（mm）

Front view | side view | Back view | Top view | Vertical view
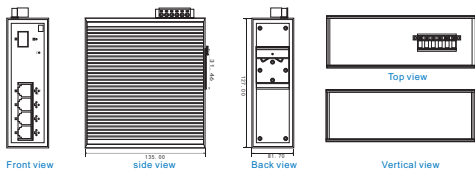
Order information:

Model No	Description		Watt per port / Total watt
	10/100BaseT(X)	100BaseF(X) or SFP	
WT-RS-10104-AF	4	1	15.4W/60W
WT-RS-10104-AT	4	1	25.5W/120W
	10/100BaseT(X)	10/100BaseT(X)	
WT-RS-10005-AF	4	1	15.4W/60W
WT-RS-10005-AT	4	1	25.5W/120W

Specifications:

Interface	Fiber Ports:100BaseF(X) or SFP slot Rj45 Ports: 10/100BaseT(X) auto negotiation speed, and auto MDI/MDI-X connection LED Indicators:PWR1,PWD2,L/A,SPD, PoE Alarm Contact:1 relay output with current carrying capacity of 1 A @24 VDC
Switch Properties	MAC Table size:8K Packet Buffer Size:1 Mbit Jumbo Frame Size:10 KB
Power Requirement	Input Voltage:24/48 VDC, redundant dual inputs Input Current:Max 7.5 A @ 24 VDC (supports up to 4 ports at 30 watts per PoE port) Overload Current Protection:Present Connection:2 removable 2-contact terminal blocks Reverse Polarity Protection:Present
Physical Characteristics	Housing:Aluminum, IP40 protection Dimensions:135 x 125 x 45mm (5.3 x 4.9 x 1.8 in) Weight:650g Installation:DIN-rail mounting, Wall mounting
Environmental Limits	Operating Temperature:-40 ~ 85 ℃ (- 40 ~ 185 °F) Storage Temperature:-40 ~ 85 ℃ (- 40 ~ 185 °F) Ambient Relative Humidity:5 ~ 95% (non-condensing)
Standards	EMI : FCC Part 15 Subpart B Class A, EN 61000-6-4(Industrial) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8, IEEE 1613 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6 MTBF （mean time between failures）：305,000 hrs IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT（X）and 100BaseFX IEEE 802.3x for Flow Control IEEE 802.3af / IEEE 802.3at for PoE Processing Type：Store and Forward Flow Control：IEEE 802.3x flow control, back pressure flow control
Warranty	5 years

RS106A Series

4/5/6 - port Industrial Ethernet switches

- ▶ Up to 4 10/100BaseT(X) and 2 100BaseF(X) or SFP slots
- ▶ Redundant dual 12/24/48 VDC power inputs
- ▶ Supports jumbo frame transmission up to 9.6 KB
- ▶ Relay output warning for power failure and port break alarm
- ▶ Broadcast storm protection
- ▶ Transparent transmission of VLAN tagged packets
- ▶ -40 to 85°C operating temperature range
- ▶ PoE/PoE+ option

Overview:

The RS106A series Industrial Ethernet switches are entry-level industrial Ethernet switches , that provide an economical solution for your industrial Ethernet connections. The built-in relay warning function alerts network engineers when power failures or port breaks occur, and the switches are designed for harsh industrial environments.

The switches comply with FCC and CE standards, and has wide operating temperature range (-40 to 85°C), which undergoes a 100% burn-in test to ensure that they fulfill the special needs of industrial automation control applications.

Dimensions:

Size:（mm）

Front view	side view	Back view	Vertical view	
	125.00	81.76		

Top view
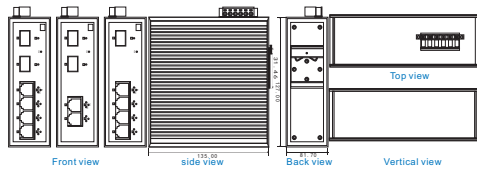
Order information:

Model No	Description	
	10/100BaseT(X)	100BaseF(X) or SFP
WT-RS-10204	4	2
WT-RS-10202	2	2
WT-RS-10104	4	1

Specifications：

Interface	Fiber Ports:100BaseF(X) SFP slot Rj45 Ports: 0/100BaseT(X) auto negotiation speed, and auto MDI/MDI-X connection LED Indicators:PWR1,PWD2,L/A,SPD, PoE(option) Alarm Contact:1 relay output with current carrying capacity of 1 A @24 VDC
Switch Properties	MAC Table size:8K Packet Buffer Size:1 Mbit Jumbo Frame Size:10 KB
Power Requirement	Input Voltage:12/24/48/>48 VDC, redundant dual inputs Input Current:24 VDC / 0.6 A Overload Current Protection:Present Connection:2 removable 2-contact terminal blocks Reverse Polarity Protection:Present
Physical Characteristics	Housing:Aluminum, IP40 protection Dimensions:135 x 125 x 45mm (5.3 x 4.9 x 1.8 in) Weight:650g Installation:DIN-rail mounting, Wall mounting
Environmental Limits	Operating Temperature:-40 ~ 85 ℃ (- 40 ~ 185 °F) Storage Temperature:-40 ~ 85 ℃ (- 40 ~ 185 °F) Ambient Relative Humidity:5 ~ 95% (non-condensing)
Standards	EMI : FCC Part 15 Subpart B Class A, EN 61000-6-4(Industrial) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8, IEEE 1613 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6 MTBF （mean time between failures）: 305,000 hrs IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT（X）and 100BaseFX IEEE 802.3ab for 1000BaseT（X） IEEE 802.3z for 1000BaseX IEEE 802.3x for Flow Control Processing Type: Store and Forward Flow Control: IEEE 802.3x flow control, back pressure flow control
Warranty	5 years

RS106G Series

4/5/6 - port Full Gigabyte Industrial Ethernet switches

▶ Up to 4 10/100/1000BaseT(X)ports and 2 1000BaseF(X) or SFP slots
▶ Redundant dual 12/24/48 VDC power inputs
▶ Supports jumbo frame transmission up to 9.6 KB
▶ Relay output warning for power failure and port break alarm
▶ Broadcast storm protection
▶ Transparent transmission of VLAN tagged packets
▶ -40 to 85°C operating temperature range
▶ PoE/PoE+ option

Overview:

The RS106G series are full Gigabyte industrial Ethernet switches, equipped with 4 Gigabit Ethernet ports and up to 2 fiber optic ports, making them ideal for applications that demand high-bandwidth transmission and data converge for up-link, such as video surveillance, tolling systems, ITS, and factory automation.

The RS106G series provide an economical solution for your industrial Gigabit Ethernet connection, and the built-in relay warning function alerts network managers when power failures or port breaks occur. It undergoes a 100% burn-in test to ensure that they fulfill the special needs of industrial automation control applications.

Dimensions:

Size:（mm）

Front view　side view　Back view　Vertical view
Top view
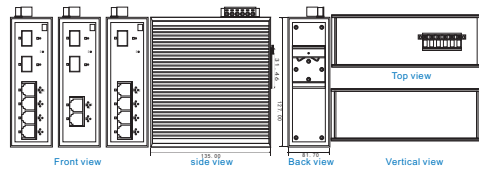
Order information:

Model No	Description	
	10/100BaseT(X)	100BaseF(X) or SFP
WT-RS-10204G	4	2
WT-RS-10202G	2	2
WT-RS-10104G	4	1

Specifications：

Interface	Fiber Ports:1000BaseF(X) or SFP slot Rj45 Ports: 10/100/1000BaseT(X) auto negotiation speed, and auto MDI/MDI-X connection LED Indicators:PWR1,PWD2,L/A,SPD, PoE(option) Alarm Contact:1 relay output with current carrying capacity of 1 A @24 VDC
Switch Properties	MAC Table size:8K Packet Buffer Size:1 Mbit Jumbo Frame Size:10 KB
Power Requirement	Input Voltage:12/24/48/>48 VDC, redundant dual inputs Input Current:24 VDC / 0.6 A Overload Current Protection:Present Connection:2 removable 2-contact terminal blocks Reverse Polarity Protection:Present
Physical Characteristics	Housing:Aluminum， IP40 protection Dimensions:135 x 125 x 45mm (5.3 x 4.9 x 1.8 in) Weight:650g Installation:DIN-rail mounting, Wall mounting
Environmental Limits	Operating Temperature:-40 ~ 85 ℃ (- 40 ~ 185 °F) Storage Temperature:-40 ~ 85 ℃ (- 40 ~ 185 °F) Ambient Relative Humidity:5 ~ 95% (non-condensing)
Standards	EMI : FCC Part 15 Subpart B Class A, EN 61000-6-4(Industrial) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8, IEEE 1613 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6 MTBF （mean time between failures）: 305,000 hrs IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT（X）and 100BaseFX IEEE 802.3ab for 1000BaseT（X） IEEE 802.3z for 1000BaseX IEEE 802.3x for Flow Control Processing Type: Store and Forward Flow Control: IEEE 802.3x flow control, back pressure flow control
Warranty	5 years

RS108A Series

8 - port Industrial Ethernet switches

▸ Up to 8 fast Ethernet ports and fiber optic ports
▸ Redundant dual 12/24/48 VDC power inputs
▸ Supports jumbo frame transmission up to 9.6 KB
▸ Relay output warning for power failure and port break alarm
▸ Broadcast storm protection
▸ Transparent transmission of VLAN tagged packets
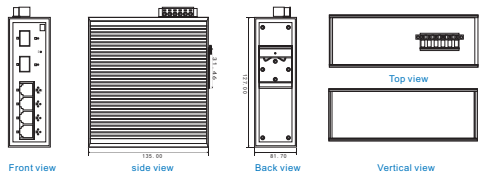▸ -40 to 85°C operating temperature range
▸ PoE/PoE+ option

Overview:

The RS108A series Industrial Ethernet switches are entry-level industrial Ethernet switches, that provide an economical solution for your industrial Ethernet connections. The built-in relay warning function alerts network engineers when power failures or port breaks occur, and the switches are designed for harsh industrial environments.

The switches comply with FCC and CE standards, and has wide operating temperature range (-40 to 85°C), which undergoes a 100% burn-in test to ensure that they fulfill the special needs of industrial automation control applications.

Specifications:

Interface	Fiber Ports:100BaseF(X) or SFP slot Rj45 Ports:10/100BaseT(X) auto negotiation speed, and auto MDI/MDI-X connection LED Indicators:PWR1,PWD2,L/A,SPD, PoE(option) Alarm Contact:1 relay output with current carrying capacity of 1 A @24 VDC
Switch Properties	MAC Table size:8K Packet Buffer Size:1 Mbit Jumbo Frame Size:9.6KB
Power Requirement	Input Voltage:12/24/48/>48 VDC, redundant dual inputs Input Current:24 VDC / 0.6 A Overload Current Protection:Present Connection:2 removable 2-contact terminal blocks Reverse Polarity Protection:Present
Physical Characteristics	Housing:Aluminum, IP40 protection Dimensions:135 x 125 x 45mm (5.3 x 4.9 x 1.8 in) Weight:650g Installation:DIN-rail mounting, Wall mounting
Environmental Limits	Operating Temperature:-40 ~ 85 ℃ (- 40 ~ 185 °F) Storage Temperature:-40 ~ 85 ℃ (- 40 ~ 185 °F) Ambient Relative Humidity:5 ~ 95% (non-condensing)
Standards	EMI : FCC Part 15 Subpart B Class A, EN 61000-6-4(Industrial) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8, IEEE 1613 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6 MTBF （mean time between failures）：305,000 hrs IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT（X）and 100BaseFX IEEE 802.3ab for 1000BaseT（X） IEEE 802.3z for 1000BaseX IEEE 802.3x for Flow Control Processing Type：Store and Forward Flow Control：IEEE 802.3x flow control, back pressure flow control
Warranty	5 years

Dimensions:

Size:（mm）

Front view   side view   Back view

Top view

Vertical view

135.00

81.70

Order information:

Model No	Description	
	10/100BaseT(X)	100BaseF(X) or SFP
WT-RS-10206	6	2
WT-RS-10404	4	4
WT-RS-10107	7	1
WT-RS-10008	8	0

RS112G Series

8/10/12 - port Full Gigabyte Industrial Ethernet switches

▸ Up to 8 10/100/1000BaseT(X)ports and 4 1000BaseF(X) or SFP slots
▸ Redundant dual 12/24/48 VDC power inputs
▸ Supports jumbo frame transmission up to 9.6 KB
▸ Relay output warning for power failure and port break alarm
▸ Broadcast storm protection
▸ Transparent transmission of VLAN tagged packets
▸ -40 to 85°C operating temperature range
▸ PoE/PoE+ option

Overview:

The RS112G series are full Gigabyte industrial Ethernet switches, equipped with 8 Gigabit Ethernet ports and up to 4 fiber optic ports, making them ideal for applications that demand high-bandwidth transmission and data converge for up-link, such as video surveillance, tolling systems, ITS, and factory automation.

The RS112G series provide an economical solution for your industrial Gigabit Ethernet connection, and the built-in relay warning function alerts network managers when power failures or port breaks occur. It undergoes a 100% burn-in test to ensure that they fulfill the special needs of industrial automation control applications.

Dimensions:

Size：（mm）

Front view　　side view　　Back view　　Top view
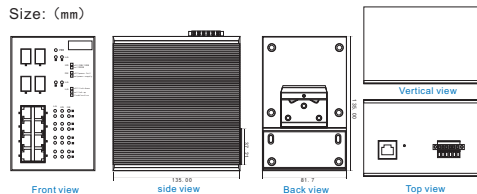
Order information:

Model No	Description	
	10/100/1000BaseT(X)	1000BaseF(X) or SFP
WT-RS-10408G	8	4
WT-RS-10208G	8	2
WT-RS-10206G	6	2

Specifications：

Switch Properties	MAC Table size:8K Packet Buffer Size:4 Mbit Jumbo Frame Size:9.6 KB
Interface	Fiber Ports:1000BaseF(X) or SFP slot Rj45 Ports:10/100/1000BaseT(X) auto negotiation speed, and auto MDI/MDI-X connection LED Indicators:PWR1,PWD2,L/A,SPD, PoE(option) Alarm Contact:1 relay output with current carrying capacity of 1 A @24 VDC
Power Requirement	Input Voltage:12/24/48/>48 VDC, redundant dual inputs Input Current:24 VDC / 0.6 A　　　Overload Current Protection:Present Connection:2 removable 2-contact terminal blocks　　Reverse Polarity Protection:Present
Physical Characteristics	Housing:Aluminum，IP40 protection Dimensions:135 * 125 * 85 mm (5.3 x 4.9 x 3.3 i n) Weight:900g　　　　Installation:DIN-rail mounting, Wall mounting
Environmental Limits	Operating Temperature:-40 ~ 85 ℃ (- 40 ~ 185 °F) Storage Temperature:-40 ~ 85 ℃ (- 40 ~ 185 °F) Ambient Relative Humidity:5 ~ 95% (non-condensing)
Standards	EMI : FCC Part 15 Subpart B Class A, EN 61000-6-4(Industrial) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8, IEEE 1613 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6 MTBF （mean time between failures）： 305,000 hrs IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT（X）and 100BaseFX IEEE 802.3ab for 1000BaseT（X） IEEE 802.3z for 1000BaseX IEEE 802.3x for Flow Control Processing Type：Store and Forward Flow Control：IEEE 802.3x flow control, back pressure flow control
Warranty	5 years

RS106M Series

4/5/6 - port Managed Industrial Ethernet switches

▸ Up to 4 10/100/1000BaseT(X) and 2 100/1000BaseF(X) or SFP slots
▸ Support ERPS, STP/RSTP/MSTP for network redundancy
▸ IGMP Snooping for filtering multicast traffic
▸ Port-based VLAN, IEEE 802.1Q VLAN, and GVRP to ease network planning
▸ Port Trunking for optimum bandwidth utilization
▸ RADIUS,TACACS+,SNMPv3,IEEE 802.1X,HTTPS and SSH to enhance network security
▸ QoS (IEEE 802.1p/CoS) and ToS/DiffServ to increase determinism
▸ SNMPv1/v2c/v3 for different levels of network management
▸ RMON for efficient network monitoring and proactive capability
▸ Support port mirroring
▸ Bandwidth management prevents unpredictable network status
▸ Lock port function for blocking unauthorized access based on MAC address
▸ Automatic alarm through e-mail, relay out
▸ User friendly UI and command command Line Interface (CLI) for quickly configuring major managed functions
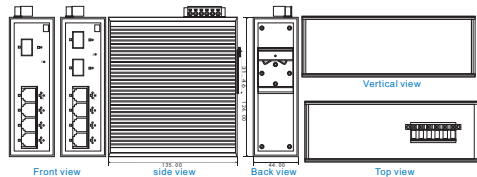▸ PoE/PoE+ option

Overview:

Process automation and transportation automation applications combine data, voice, and video, and consequently require high performance and high reliability. The CS128G series full Gigabit backbone switches are equipped with up to 28 Gigabit Ethernet ports, making them ideal for large scale industrial networks. The CS128G Series' full Gigabit capability increases bandwidth to provide high performance and the ability to quickly transfer large amounts of video, voice, and data across a network. Enormous management function increase system reliability and the availability of your network backbone.

The CS128M Series support one full-range AC and dual DC power inputs from +12~48 VDC or -12~-48 VDC, and support extend operating temperature from -40 to 85°C. One additional relay output is provided for system alarm warning. It undergoes a 100% burn-in test to ensure that they fulfill the special needs of harsh industrial environment.

Dimensions:

Size：(mm)

Vertical view

Front view   side view   Back view   Top view

Order information:

Model No	Description	
	10/100/1000BaseT(X)	1000BaseF(X) or SFP
WT-RS-80204G	4	2
WT-RS-80104G	4	1
	10/100BaseT(X)	100BaseF(x) or SFP
WT-RS-80204	4	2
WT-RS-80104	4	1

Specifications :

Protocols	IGMPv1/v2/v3, GMRP, GVRP, SNMPv1/v2c/v3,DHCP Server/Client, DHCP Option 66/67/82,BootP,TFTP, SNTP,SMTP, RARP, RMON, HTTP, HTTPS,Telnet, SSH, Syslog,EtherNet/IP, PROFINET,Modbus/TCP, SNMP Inform, LLDP,IEEE 1588 PTP V2, IPv6, NTP Server/Client
MIB	MIB-II, Ethernet-Like MIB, P-BRIDGE MIB,Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1, 2, 3, 9
Flow Control	IEEE 802.3x flow control, back pressure flow control
Switch Properties	Priority Queues: 4 IGMP Groups: 256 Jumbo Frame Size:10 KB Max. Number of Available VLANs: 64 MAC Table size:8K VLAN ID Range: VID 1 to 4094 Packet Buffer Size:1Mbit
Interface	Fiber Ports:100BaseF(X) or 1000BaseF(X) or SFP slot Rj45 Ports:10/100BaseT(X) or 10/100/1000BaseT(X) auto negotiation speed, and auto MDI/MDI-X connection Console port: RS-232 (RJ45 connector) LED Indicators:PWR1,PWD2,L/A,SPD, PoE(option) Alarm Contact:1 relay output with current carrying capacity of 1 A @24 VDC
Power Requirement	Input Voltage:12/24/48/>48 VDC, redundant dual inputs Input Current:24 VDC / 0.6 A Overload Current Protection:Present Connection:2 removable 2-contact terminal blocksReverse Polarity Protection:Present
Physical Characteristics	Housing:Aluminum, IP40 protection Dimensions:135 x 125 x 45mm (5.3 x 4.9 x 1.8 in) Weight:650g Installation:DIN-rail mounting, Wall mounting
Environmental Limits	Operating Temperature: -40 ~ 85 ℃ (- 40 ~ 185 °F) Storage Temperature: -40 ~ 85 ℃ (- 40 ~ 185 °F) Ambient Relative Humidity: 5 ~ 95% (non-condensing)
Standards	EMI : FCC Part 15 Subpart B Class A, EN 61000-6-4(Industrial) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8, IEEE 1613 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6 MTBF （mean time between failures）：305,000 hrs IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX IEEE 802.3ab for 1000Base-T IEEE 802.z for 1000Base-X IEEE 802.1Dfor Spanning Tree Protocol IEEE 802.1wfor Rapid Spanning Tree Protocol IEEE 802.1sfor Multiple Spanning Tree Protocol IEEE 802.1Qfor VLAN Tagging IEEE 802.1pfor Class of Service IEEE 802.1Xfor Authentication IEEE 802.3adfor Port Trunk with LACP IEEE 802.3x for Flow Control
Warranty	5 years

RS112M Series

8/10/12 - port Full Gigabyte Managed Industrial Ethernet switches

▸ Up to 8 10/100/1000BaseT(X) and 4 1000BaseF(X) or SFP slots
▸ Support ERPS, STP/RSTP/MSTP for network redundancy
▸ IGMP Snooping for filtering multicast traffic
▸ Port-based VLAN, IEEE 802.1Q VLAN, and GVRP to ease network planning
▸ Port Trunking for optimum bandwidth utilization
▸ RADIUS,TACACS+,SNMPv3,IEEE 802.1X,HTTPS and SSH to enhance network security
▸ QoS (IEEE 802.1p/CoS) and ToS/DiffServ to increase determinism
▸ SNMPv1/v2c/v3 for different levels of network management
▸ RMON for efficient network monitoring and proactive capability
▸ Support port mirroring
▸ Bandwidth management prevents unpredictable network status
▸ Lock port function for blocking unauthorized access based on MAC address
▸ Automatic alarm through e-mail, relay out
▸ User friendly UI and command command Line Interface (CLI) for quickly configuring major managed functions
▸ PoE/PoE+ option

Overview:

The RS112M series is equipped with up to 8 Gigabit Ethernet ports and 4 fiber optic ports, making it ideal for upgrading an existing network to Gigabit speed or building a new full Gigabit backbone. Gigabit transmission increases bandwidth for higher performance and transfers large amounts of triple-play services across a network quickly. Redundant Ethernet ERPS, RSTP/STP, and MSTP increase system reliability and the availability of your network backbone.

The RS112M series is designed especially for communication demanding applications, such as video and process monitoring, ITS, and process automatic systems, all of which can benefit from a scalable backbone construction.

Dimensions:

Size: (mm)

Front view | side view | Back view | Top view
Vertical view
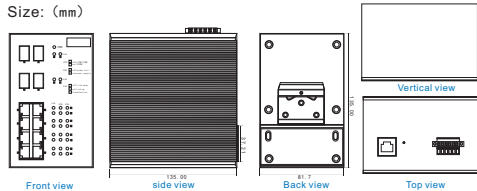
Order information:

Model No	Description	
	10/100/1000BaseT(X)	1000BaseF(X) or SFP
WT-RS-80408G	8	4
WT-RS-80208G	8	2
WT-RS-80206G	6	2

Specifications:

Protocols	IGMPv1/v2/v3,GMRP,GVRP,SNMPv1/v2c/v3,DHCP Server/Client,DHCP Option 66/67/82,BootP,TFTP, SNTP,SMTP, RARP, RMON, HTTP, HTTPS,Telnet, SSH, Syslog,EtherNet/IP, PROFINET,Modbus/TCP, SNMP Inform, LLDP,IEEE 1588 PTP V2, IPv6, NTP Server/Client
MIB	MIB-II, Ethernet-Like MIB, P-BRIDGE MIB,Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1, 2, 3, 9
Flow Control	IEEE 802.3x flow control, back pressure flow control
Switch Properties	Priority Queues: 4 IGMP Groups: 256 Jumbo Frame Size:9.6 KB Max. Number of Available VLANs: 64 MAC Table size:8K VLAN ID Range: VID 1 to 4094 Packet Buffer Size:4Mbit
Interface	Fiber Ports:1000BaseF(X) or SFP slot Rj45 Ports: 10/100/1000BaseT(X) auto negotiation speed, and auto MDI/MDI-X connection Console port: RS-232 (RJ45 connector) LED Indicators:PWR1,PWD2,L/A,SPD, PoE(option) Alarm Contact:1 relay output with current carrying capacity of 1 A @24 VDC
Power Requirement	Input Voltage:12/24/48/>48 VDC, redundant dual inputs Input Current:24 VDC / 0.6 A Overload Current Protection：Present Connection:2 removable 2-contact terminal blocks Reverse Polarity Protection:Present
Physical Characteristics	Housing:Aluminum，IP40 protection Dimensions:135 x 125 x 85mm (5.3 x 4.9 x 3.3 in) Weight:900g Installation:DIN-rail mounting, Wall mounting
Environmental Limits	Operating Temperature:-40 ~ 85 ℃ (- 40 ~ 185 °F) Storage Temperature:-40 ~ 85 ℃ (- 40 ~ 185 °F) Ambient Relative Humidity:5 ~ 95% (non-condensing)
Standards	EMI : FCC Part 15 Subpart B Class A, EN 61000-6-4(Industrial) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8, IEEE 1613 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6 MTBF （mean time between failures）：305,000 hrs IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX IEEE 802.3ab for 1000Base-T IEEE 802.z for 1000Base-X IEEE 802.1D for Spanning Tree Protocol IEEE 802.1w for Rapid Spanning Tree Protocol IEEE 802.1s for Multiple Spanning Tree Protocol IEEE 802.1Q for VLAN Tagging IEEE 802.1p for Class of Service IEEE 802.1X for Authentication IEEE 802.3ad for Port Trunk with LACP IEEE 802.3x for Flow Control
Warranty	5 years

CS124G Series

16/24 - port Full Gigabyte Industrial Ethernet switches

- Up to 12 10/100/1000BaseT(X)ports and 12 1000BaseF(X) or SFP slots
- Supports jumbo frame transmission up to 9.6 KB
- Broadcast storm protection
- Transparent transmission of VLAN tagged packets
- No fan, low consumption, EMC-4 grade design, 3KV isolation protection, all ports anti-lighting (6KV)
- Include 100~240 VAC and Dual +12~+48 VDC or -12~-48 VDC power inputs
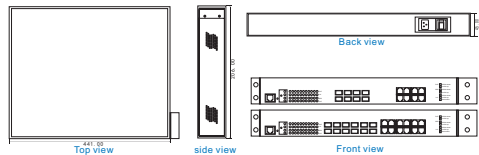- PoE / PoE+ option

Overview:

CS124G Series is an type of Multi-port full Gigabyte Ethernet switches that support up to 12 Gigabyte Ethernet ports and 12 Fiber optic ports, making it ideal for upgrading an existing network to Gigabyte speed or building a new full Gigabit backbone. Gigabit transmission increases bandwidth for higher performance and transfers large amounts of triple play services across a network quickly.

CS124G Series support one full-range AC and dual DC power inputs from +12~48 VDC or -12~-48 VDC, and support extend operating temperature from -40 to 85°C. One additional relay output is provided for system alarm warning. It undergoes a 100% burn-in test to ensure that they fulfill the special needs of harsh industrial environment. The CS124G series is designed especially for communication demanding applications, such as video and process monitoring, ITS, and process automatic systems, all of which can benefit from a scalable backbone construction.

Dimensions:

Size: (mm)

Top view   side view   Back view   Front view

Order information:

Model No	Description	
	10/100/1000BaseT(X)	1000BaseF(X) or SFP
WT-CS-10808G	8	8
WT-CS-11212G	12	12

Specifications:

Interface	Fiber Ports:1000BaseF(X) or SFP slot Rj45 Ports:10/100/1000BaseT(X) auto negotiation speed, and auto MDI/MDI-X connection LED Indicators:PWR,L/A,SPD, PoE(option)
Switch Properties	MAC Table size:8K Packet Buffer Size:4 Mbit Jumbo Frame Size:9.6 KB
Power Requirement	Input Power:100~240VAC with power cord and dual +12~+48 VDC or -12~-48 VDC inputs in 6-pin terminal block Power Consumption: 18 Watts Overload Current Protection:Present
Physical Characteristics	Housing:P30protection, Metal case Dimensions:441mm*206mm*45mm (17.3 x 8.11 x 1.77 in) Weight:2500g Installation:19" 1U rack
Environmental Limits	Operating Temperature:-40 ~ 85 ℃ (- 40 ~ 185 °F) Storage Temperature:-40 ~ 85 ℃ (- 40 ~ 185 °F) Ambient Relative Humidity:5 ~ 95% (non-condensing)
Standards	EMI : FCC Part 15 Subpart B Class A, EN 61000-6-4(Industrial) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8, IEEE 1613 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6 MTBF （mean time between failures）： 305,000 hrs IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT （X） and 100BaseFX IEEE 802.3ab for 1000BaseT （X） IEEE 802.3z for 1000BaseX IEEE 802.3x for Flow Control Processing Type：Store and Forward Flow Control： IEEE 802.3x flow control, back pressure flow control
Warranty	5 years

CS128G Series

24/28 - port Full Gigabyte Industrial Ethernet switches

- Up to 24 10/100/1000BaseT(X)ports and 4 1000BaseF(X) or SFP slots
- Supports jumbo frame transmission up to 9.6 KB
- Broadcast storm protection
- Transparent transmission of VLAN tagged packets
- No fan, low consumption, EMC-4 grade design, 3KV isolation protection, all ports anti-lighting (6KV)
- Include 100~240 VAC and Dual +12~+48 VDC or -12~-48 VDC power inputs
- PoE / PoE+ option

Overview:

Process automation and transportation automation applications combine data, voice, and video, and consequently require high performance and high reliability. The CS128G series full Gigabit backbone switches are equipped with up to 28 Gigabit Ethernet ports, making them ideal for large scale industrial networks. The CS128G Series' full Gigabit capability increases bandwidth to provide high performance and the ability to quickly transfer large amounts of video, voice, and data across a network.

The CS128G Series support one full-range AC and dual DC power inputs from +12~48 VDC or -12~-48 VDC, and support extend operating temperature from -40 to 85°C. One additional relay output is provided for system alarm warning. It undergoes a 100% burn-in test to ensure that they fulfill the special needs of harsh industrial environment.

Dimensions:

Size:（mm）

Back view

Top view　　side view　　Front view
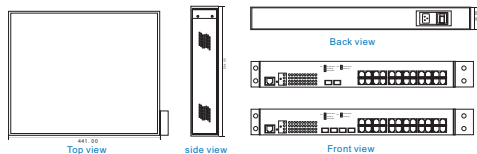
Order information:

Model No	Description	
	10/100/1000BaseT(X)	1000BaseF(X) or SFP
WT-CS-10424G	24	4
WT-CS-10224G	24	2

Specifications:

Switch Properties	MAC Table size:8K Packet Buffer Size:4 Mbit Jumbo Frame Size:9.6 KB
Interface	Fiber Ports:1000BaseF(X) or SFP slot Rj45 Ports:10/100/1000BaseT(X) auto negotiation speed, and auto MDI/MDI-X connection LED Indicators:PWR,L/A,SPD, PoE(option)
Power Requirement	Input Power:100~240VAC with power cord and dual +12~+48 VDC or -12~-48 VDC inputs in 6-pin terminal block Power Consumption: 18 Watts Overload Current Protection:Present
Physical Characteristics	Dimensions:441mm*206mm*45mm (17.3 x 8.11 x 1.77 in) Weight:2500g Installation:19" 1U rack
Environmental Limits	Operating Temperature:-40 ~ 85 ℃（- 40 ~ 185 °F） Storage Temperature:-40 ~ 85 ℃（- 40 ~ 185 °F） Ambient Relative Humidity:5 ~ 95% (non-condensing)
Standards	EMI : FCC Part 15 Subpart B Class A, EN 61000-6-4(Industrial) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8, IEEE 1613 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6 MTBF（mean time between failures）： 305,000 hrs IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT（X）and 100BaseFX IEEE 802.3ab for 1000BaseT（X） IEEE 802.3z for 1000BaseX IEEE 802.3x for Flow Control Processing Type：Store and Forward Flow Control：IEEE 802.3x flow control, back pressure flow control
Warranty	5 years

CS124M Series

16/24 - port Full Gigabyte Managed Industrial Ethernet switches

- ▸ Up to 12 10/100/1000BaseT(X)ports and 12 1000BaseF(X) or SFP slots
- ▸ Support ERPS, STP/RSTP/MSTP for network redundancy
- ▸ IGMP Snooping for filtering multicast traffic
- ▸ Port-based VLAN, IEEE 802.1Q VLAN, and GVRP to ease network planning
- ▸ Port Trunking for optimum bandwidth utilization
- ▸ RADIUS,TACACS+,SNMPv3,IEEE 802.1X,HTTPS and SSH to enhance network security
- ▸ QoS (IEEE 802.1p/CoS) and ToS/DiffServ to increase determinism SNMPv1/v2c/v3 for different levels of network management
- ▸ RMON for efficient network monitoring and proactive capability
- ▸ Support port mirroring
- ▸ Bandwidth management prevents unpredictable network status
- ▸ Lock port function for blocking unauthorized access based on MAC address
- ▸ Automatic alarm through e-mail, relay out
- ▸ User friendly UI and command command Line Interface (CLI) for quickly configuring major managed functions
- ▸ Include 100~240 VAC and redundant dual 12/24/48 VDC power inputs
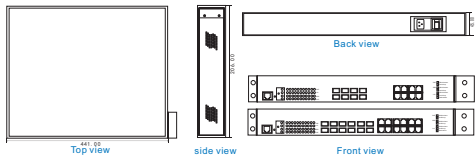- ▸ PoE / PoE+ option

Overview:

CS124M Series is an type of Multi-port full Gigabyte Ethernet switches that support up to 12 Gigabyte Ethernet ports and 12 Fiber optic ports, making it ideal for upgrading an existing network to Gigabyte speed or building a new full Gigabit backbone. Gigabit transmission increases bandwidth for higher performance and transfers large amounts of triple play services across a network quickly. Enormous management function increase system reliability and the availability of your network backbone.

CS124M Series support one full-range AC and dual DC power inputs from +12~48 VDC or -12~-48 VDC, and support extend operating temperature from -40 to 85°C. One additional relay output is provided for system alarm warning. It undergoes a 100% burn-in test to ensure that they fulfill the special needs of harsh industrial environment. The CS124M series is designed especially for communication demanding applications, such as video and process monitoring, ITS, and process automatic systems, all of which can benefit from a scalable backbone construction.

Dimensions:

Size: (mm)

Back view

Top view   side view   Front view

Order information:

Model No	Description	
	10/100/1000BaseT(X)	1000BaseF(X) or SFP
WT-CS-10808G	8	8
WT-CS-11212G	12	12

Specifications:

Protocols	IGMPv1/v2/v3, GMRP, GVRP, SNMPv1/v2c/v3,DHCP Server/Client, DHCP Option 66/67/82, BootP,TFTP, SNTP,SMTP, RARP, RMON, HTTP, HTTPS,Telnet, SSH, Syslog,EtherNet/IP, PROFINET, Modbus/TCP, SNMP Inform, LLDP,IEEE 1588 PTP V2, IPv6, NTP Server/Client
MIB	MIB-II, Ethernet-Like MIB, P-BRIDGE MIB,Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1, 2, 3, 9
Flow Control	IEEE 802.3x flow control, back pressure flow control
Switch Properties	Priority Queues: 4 GMP Groups: 256 Jumbo Frame Size:9.6 KB Max. Number of Available VLANs: 64 MAC Table size：8K VLAN ID Range: VID 1 to 4094 Packet Buffer Size：4 Mbit
Interface	Fiber Ports:1000BaseF(X) or SFP slot Rj45 Ports:10/100/1000BaseT(X) auto negotiation speed, and auto MDI/MDI-X connection Console port: RS-232 (RJ45 connector) LED Indicators:PWR,L/A,SPD, PoE(option)
Power Requirement	Input Power:100~240VAC with power cord and dual +12~+48 VDC or -12~-48 VDC inputs in 6-pin terminal block Power Consumption: 18 Watts Overload Current Protection:Present
Physical Characteristics	Housing:IP30protection, Metal case Dimensions:441mm*206mm*45mm (17.3 x 8.11 x 1.77 in) Weight:2500g Installation:19" 1U rack
Environmental Limits	Operating Temperature:-40 ~ 85 ℃ (- 40 ~ 185 °F) Storage Temperature:-40 ~ 85 ℃ (- 40 ~ 185 °F) Ambient Relative Humidity:5 ~ 95% (non-condensing)
Standards	EMI : FCC Part 15 Subpart B Class A, EN 61000-6-4(Industrial) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8, IEEE 1613 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration : IEC 60068-2-6 MTBF （mean time between failures）: 305,000 hrs IEEE 802.3ab for 1000Base-T IEEE 802.z for 1000Base-X IEEE 802.1Dfor Spanning Tree Protocol IEEE 802.1wfor Rapid Spanning Tree Protocol IEEE 802.1sfor Multiple Spanning Tree Protocol IEEE 802.1Qfor VLAN Tagging IEEE 802.1pfor Class of Service IEEE 802.1Xfor Authentication IEEE 802.3adfor Port Trunk with LACP IEEE 802.3x for Flow Control
Warranty	5 years

RoHS COMPLIANT

CS128M Series

24/28 - port Full Gigabyte Managed Industrial Ethernet switches

▶ Up to 24 10/100/1000BaseT(X)ports and 4 1000BaseF(X) or SFP slots
▶ Support ERPS, STP/RSTP/MSTP for network redundancy
▶ IGMP Snooping for filtering multicast traffic
▶ Port-based VLAN, IEEE 802.1Q VLAN, and GVRP to ease network planning
▶ Port Trunking for optimum bandwidth utilization
▶ RADIUS,TACACS+,SNMPv3,IEEE 802.1X,HTTPS and SSH to enhance network securityQoS (IEEE 802.1p/CoS) and ToS/DiffServ to increase determinism
▶ SNMPv1/v2c/v3 for different levels of network management
▶ RMON for efficient network monitoring and proactive capability
▶ Support port mirroring
▶ Bandwidth management prevents unpredictable network status
▶ Lock port function for blocking unauthorized access based on MAC address
▶ Automatic alarm through e-mail, relay out
▶ User friendly UI and command command Line Interface (CLI) for quickly configuring major managed functions
▶ Include 100~240 VAC and redundant dual 12/24/48 VDC power inputs
▶ PoE / PoE+ option

Overview:

Process automation and transportation automation applications combine data, voice, and video, and consequently require high performance and high reliability. The CS128Mseries full Gigabit backbone switches are equipped with up to 28 Gigabit Ethernet ports, making them ideal for large scale industrial networks. The CS128M Series' full Gigabit capability increases bandwidth to provide high performance and the ability to quickly transfer large amounts of video, voice, and data across a network. Enormous management function increase system reliability and the availability of your network backbone.

The CS128M Series support one full-range AC and dual DC power inputs from +12~48 VDC or -12~-48 VDC, and support extend operating temperature from -40 to 85°C. One additional relay output is provided for system alarm warning. It undergoes a 100% burn-in test to ensure that they fulfill the special needs of harsh industrial environment.

Dimensions:

Size: (mm)

Top view
side view
Back view
Front view
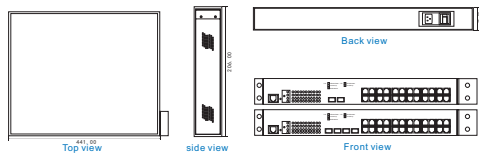
Order information:

Model No	Description	
	10/100/1000BaseT(X)	1000BaseF(X) or SFP
WT-CS-80424G	24	4
WT-CS-80224G	24	2

Specifications :

Protocols	IGMPv1/v2/v3, GMRP, GVRP, SNMPv1/v2c/v3,DHCP Server/Client, DHCP Option 66/67/82,BootP,TFTP, SNTP,SMTP, RARP, RMON, HTTP, HTTPS,Telnet, SSH, Syslog,EtherNet/IP, PROFINET,Modbus/TCP, SNMP Inform, LLDP,IEEE 1588 PTP V2, IPv6, NTP Server/Client
MIB	MIB-II, Ethernet-Like MIB, P-BRIDGE MIB,Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1, 2, 3, 9
Flow Control	IEEE 802.3x flow control, back pressure flow control
Switch Properties	Priority Queues: 4 IGMP Groups: 256 Jumbo Frame Size:9.6 KB Max. Number of Available VLANs: 64 MAC Table size:8K VLAN ID Range: VID 1 to 409 Packet Buffer Size:4Mbit
Interface	Fiber Ports:1000BaseF(X) or SFP slot Rj45 Ports: 10/100/1000BaseT(X) auto negotiation speed, and auto MDI/MDI-X connection Console port: RS-232 (RJ45 connector) LED Indicators:PWR,L/A,SPD, PoE(option)
Power Requirement	Input Power:100~240VAC with power cord and dual +12~+48 VDC or -12~-48 VDC inputs in 6-pin terminal block Power Consumption: 18 Watts Overload Current Protection:Present
Physical Characteristics	Housing: IP30protection, Metal case Dimensions: 441mm*206mm*45mm (17.3 x 8.11 x 1.77 in) Weight: 2500g Installation: 19" 1U rack
Environmental Limits	Operating Temperature: -40 ~ 85 ℃ (- 40 ~ 185 °F) Storage Temperature: -40 ~ 85 ℃ (- 40 ~ 185 °F) Ambient Relative Humidity: 5 ~ 95% (non-condensing)
Standards	EMI : FCC Part 15 Subpart B Class A, EN 61000-6-4(Industrial) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8, IEEE 1613 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6 MTBF （mean time between failures）：305,000 hrs IEEE 802.3ab for 1000Base-T IEEE 802.z for 1000Base-X IEEE 802.1DforSpanning Tree Protocol IEEE 802.1wforRapid Spanning Tree Protocol IEEE 802.1sforMultiple Spanning Tree Protocol IEEE 802.1QforVLAN Tagging IEEE 802.1pforClass of Service IEEE 802.1XforAuthentication IEEE 802.3adforPort Trunk with LACP IEEE 802.3x for Flow Control
Warranty	5 years

CS126T Series

26-port IEC61850-3 Industrial Ethernet switches

- 24 10/100BaseT(X)ports and 2 Gigabit combo ports, SFP socket
- Designed for Railway application and fully compliant with the requirement of IEC 61850-3 and IEEE 1613
- RSTP/STP(IEEE 802.1s/w/D)
- IGMP v2/v3 (IGMP snooping support) for filtering multicast traffic
- Port Trunking for easy of bandwidth management
- SNMP v1/v2c/v3 support for secured network management
- Event notification through Syslog, Email, SNMP trap, and Relay Output support centralization management and configurable by Web- based ,Telnet,Console(CLI)
- PoE/PoE+ option

Specifications：

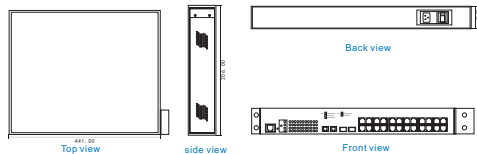|	
Protocols	IGMPv1/v2/v3, GMRP, GVRP, SNMPv1/v2c/v3,DHCP Server/Client, DHCP Option 66/67/82,BootP,TFTP, SNTP,SMTP, RARP, RMON, HTTP, HTTPS,Telnet, SSH, Syslog,EtherNet/IP, PROFINET,Modbus/TCP, SNMP Inform, LLDP,IEEE 1588 PTP V2, IPv6, NTP Server/Client
MIB	MIB-II, Ethernet-Like MIB, P-BRIDGE MIB,Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1, 2, 3, 9
Flow Control	IEEE 802.3x flow control, back pressure flow control
Switch Properties	Priority Queues: 4 IGMP Groups: 256 Jumbo Frame Size：9.6 KB Max. Number of Available VLANs: 64 MAC Table size:8K VLAN ID Range: VID 1 to 4094 Packet Buffer Size:1 Mbit
Interface	Fiber Ports:Gigabit combo ports, SFP socket Rj45 Ports: 10/100BaseT(X) auto negotiation speed, and auto MDI/MDI-X connection Console port: RS-232 (RJ45 connector) LED Indicators:PWR,L/A,SPD, PoE(option)
Power Requirement	Input Power: 100~240VAC with power cord and dual +12~+48 VDC or -12~-48 VDC inputs in 6-pin terminal block Power Consumption: 18 Watts Overload Current Protection: Present
Physical Characteristics	Housing: IP30 protection, Metal case Dimensions: 441mm*206mm*45mm (17.3 x 8.11 x 1.77 in) Weight: 4200g Installation: 19" 1U rack
Environmental Limits	Operating Temperature: -40 ~ 85 ℃ (- 40 ~ 185 °F) Storage Temperature: -40 ~ 85 ℃ (- 40 ~ 185 °F) Ambient Relative Humidity: 5 ~ 95% (non-condensing)
Standards	Power Automation: IEC 61850-3, IEEE 1613 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), EN61000-4-8, EN61000-4-11 IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX IEEE 802.3ab for 1000Base-T IEEE 802.z for 1000Base-X IEEE 802.3x for Flow control IEEE 802.3ad for LACP (Link Aggregation Control Protocol) IEEE 802.1p for COS (Class of Service) IEEE 802.1Q for VLAN Tagging IEEE 802.1D for STP (Spanning Tree Protocol) IEEE 802.1w for RSTP (Rapid Spanning Tree Protocol) IEEE 802.1s for MSTP (Multiple Spanning Tree Protocol) IEEE 802.1 for Authentication IEEE 802.1AB for LLDP (Link Layer Discovery Protocol)
Warranty	5 years

Overview:

The CS126T series are IEC 61850-3 managed Redundant Ring Ethernet switch with 24 fast Ethernet ports and 2 Gigabit combo ports, SFP socket. It is designed for power substation application and rolling stock application, fully compliant with the requirement of IEC 61850-3 and IEEE 1613. With completely support of Ethernet Redundancy protocol, ERPS and RSTP/STP can protect your mission-critical applications from network interruptions or temporary malfunctions with its fast recovery technology. It allows multiple redundant network rings of different redundancy protocols to join and function together as a larger and more robust compound network topology.

The CS126T series provided ease-of-use while maximizing fault-recovery swiftness, flexibility, compatibility, and cost-effectiveness in one set of network redundancy topology. In addition, the wide operating temperature range from -40 to 85°C can satisfy most of operating environment. Therefore, these switches are one of the most reliable choices for highly-managed Fiber Ethernet power substation and rolling stock application.

Dimensions：

Size: （mm）

Back view

Top view

side view

Front view

Order information:

Model No	Description	
	10/100/BaseT(X)	Gigabit combo ports, SFP socket
WT-CS-90224_T	24	2

RS110T Series

10-port IEC61850-3 Industrial Ethernet switches

▶ **8 fast Ethernet ports and 2 Gigabit combo ports, SFP socket**
▶ **Designed for Railway application and fully compliant with the requirement of IEC 61850-3 and IEEE 1613**
▶ **RSTP/STP(IEEE 802.1s/w/D)**
▶ **IGMP v2/v3 (IGMP snooping support) for filtering multicast traffic**
▶ **Port Trunking for easy of bandwidth management**
▶ **SNMP v1/v2c/v3 support for secured network management**
▶ **Event notification through Syslog, Email, SNMP trap, and Relay Output**
▶ **support centralization management and configurable by Web- based ,Telnet,Console(CLI)**
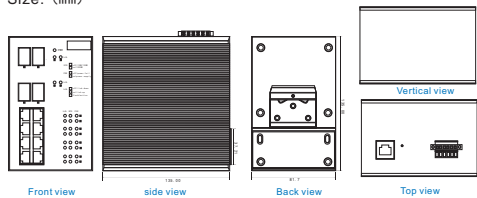▶ **PoE/PoE+ option**

Overview:

The RS110T series are IEC 61850-3 managed Redundant Ring Ethernet switch with 8 fast Ethernet ports and 2 Gigabit combo ports, SFP socket. It is designed for power substation application and rolling stock application, fully compliant with the requirement of IEC 61850-3 and IEEE 1613. With completely support of Ethernet Redundancy protocol, ERPS and RSTP/STP can protect your mission-critical applications from network interruptions or temporary malfunctions with its fast recovery technology. It allows multiple redundant network rings of different redundancy protocols to join and function together as a larger and more robust compound network topology.

The RS110T series provided ease-of-use while maximizing fault-recovery swiftness, flexibility, compatibility, and cost-effectiveness in one set of network redundancy topology. In addition, the wide operating temperature range from -40 to 85°C can satisfy most of operating environment. Therefore, these switches are one of the most reliable choices for highly-managed Fiber Ethernet power substation and rolling stock application.

Dimensions:

Size: （mm）

Front view	side view	Back view	Vertical view / Top view

Order information:

Model No	Description	
	10/100/BaseT(X)	Gigabit combo ports, SFP socket
WT–CS-90208_T	8	2

Specifications:

Protocols	IGMPv1/v2/v3, GMRP, GVRP, SNMPv1/v2c/v3,DHCP Server/Client, DHCP Option 66/67/82,BootP,TFTP, SNTP,SMTP, RARP, RMON, HTTP, HTTPS,Telnet, SSH, Syslog,EtherNet/IP, PROFINET,Modbus/TCP, SNMP Inform, LLDP,IEEE 1588 PTP V2, IPv6, NTP Server/Client
MIB	MIB-II, Ethernet-Like MIB, P-BRIDGE MIB,Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1, 2, 3, 9
Flow Control	IEEE 802.3x flow control, back pressure flow control
Switch Properties	Priority Queues: 4 IGMP Groups: 256 Jumbo Frame Size:9.6 KB Max. Number of Available VLANs: 64 MAC Table size:8K VLAN ID Range: VID 1 to 4094 Packet Buffer Size:1Mbit
Interface	Fiber Ports:Gigabit combo ports, SFP socket Rj45 Ports: 10/100BaseT(X) auto negotiation speed, and auto MDI/MDI-X connection Console port: RS-232 (RJ45 connector) LED Indicators:PWR,L/A,SPD, PoE(option)
Power Requirement	Input Power:100~240VAC with power cord and dual +12~+48 VDC or -12~-48 VDC inputs in 6-pin terminal block Power Consumption: 12 Watts Overload Current Protection:Present
Physical Characteristics	Housing:Aluminum, IP40 protection Dimensions:135 x 125 x 45mm (5.3 x 4.9 x 1.8 in) Weight:650g Installation:DIN-rail mounting, Wall mounting
Environmental Limits	Operating Temperature: -40 ~ 85 ℃ (- 40 ~ 185 °F) Storage Temperature: -40 ~ 85 ℃ (- 40 ~ 185 °F) Ambient Relative Humidity: 5 ~ 95% (non-condensing)
Standards	Eower Automation: IEC 61850-3, IEEE 1613 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), EN61000-4-8, EN61000-4-11 Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6 Safety: EN60950-1 IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX IEEE 802.3ab for 1000Base-T IEEE 802.z for 1000Base-X IEEE 802.3x for Flow control IEEE 802.3ad for LACP (Link Aggregation Control Protocol) IEEE 802.1p for COS (Class of Service) IEEE 802.1Q for VLAN Tagging IEEE 802.1D for STP (Spanning Tree Protocol) IEEE 802.1w for RSTP (Rapid Spanning Tree Protocol) IEEE 802.1s for MSTP (Multiple Spanning Tree Protocol) IEEE 802.1 for Authentication IEEE 802.1AB for LLDP (Link Layer Discovery Protocol)
Warranty	5 years

RS120T Series

20-port IEC61850-3 Industrial Ethernet switches

- 16 Gigabyte Ethernet ports and 4 Gigabit fiber optic ports
- Designed for Railway application and fully compliant with the requirement of IEC 61850-3 and IEEE 1613
- RSTP/STP(IEEE 802.1s/w/D)
- IGMP v2/v3 (IGMP snooping support) for filtering multicast traffic
- Port Trunking for easy of bandwidth management
- SNMP v1/v2c/v3 support for secured network management
- Event notification through Syslog, Email, SNMP trap, and Relay Output
- support centralization management and configurable by Web- based ,Telnet,Console(CLI)
- PoE/PoE+ option

Overview:

The RS120T series are IEC 61850-3 managed Redundant Ring Ethernet switch with 16 Gigabyte Ethernet ports and 4 Gigabit fiber optic ports. It is designed for power substation application and rolling stock application, fully compliant with the requirement of IEC 61850-3 and IEEE 1613. With completely support of Ethernet Redundancy protocol, ERPS and RSTP/STP can protect your mission-critical applications from network interruptions or temporary malfunctions with its fast recovery technology. It allows multiple redundant network rings of different redundancy protocols to join and function together as a larger and more robust compound network topology.

The RS120T series provided ease-of-use while maximizing fault-recovery swiftness, flexibility, compatibility, and cost-effectiveness in one set of network redundancy topology. In addition, the wide operating temperature range from -40 to 85°C can satisfy most of operating environment. Therefore, these switches are one of the most reliable choices for highly-managed Fiber Ethernet power substation and rolling stock application.

Dimensions:

Size:（mm）

Front view | side view | Back view | Vertical view | Top view
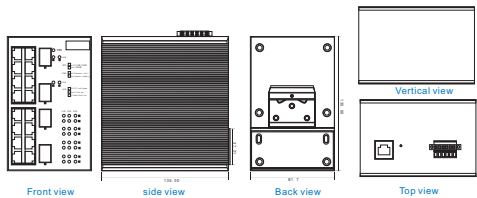
Order information:

Model No	Description	
	10/100/1000BaseT(X)	1000BaseF(X) or SFP
WT-CS-90416G	16	4

Specifications:

Protocols	IGMPv1/v2/v3, GMRP, GVRP, SNMPv1/v2c/v3,DHCP Server/Client, DHCP Option 66/67/82,BootP,TFTP, SNTP,SMTP, RARP, RMON, HTTP, HTTPS,Telnet, SSH, Syslog,EtherNet/IP, PROFINET,Modbus/TCP, SNMP Inform, LLDP,IEEE 1588 PTP V2, IPv6, NTP Server/Client
MIB	MIB-II, Ethernet-Like MIB, P-BRIDGE MIB,Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1, 2, 3, 9
Flow Control	IEEE 802.3x flow control, back pressure flow control
Switch Properties	Priority Queues: 4 IGMP Groups: 256 Jumbo Frame Size:9.6 KB Max. Number of Available VLANs: 64 MAC Table size:8K VLAN ID Range: VID 1 to 409 Packet Buffer Size:4Mbit
Interface	Fiber Ports: 1000BaseF(X) or SFP Rj45 Ports: 10/100/1000BaseT(X) auto negotiation speed, and auto MDI/MDI-X connection Console port: RS-232 (RJ45 connector) LED Indicators: PWR,L/A,SPD, PoE(option)
Power Requirement	Input Power: 100~240VAC with power cord and dual +12~+48 VDC or -12~-48 VDC inputs in 6-pin terminal block Power Consumption: 12 Watts Overload Current Protection: Present
Physical Characteristics	Housing: Aluminum, IP40 protection Dimensions: 135 x 125 x 85mm (5.3 x 4.9 x 3.3 in) Weight: 900g Installation: DIN-rail mounting, Wall mounting
Environmental Limits	Operating Temperature: -40 ~ 85 ℃ (- 40 ~ 185 °F) Storage Temperature: -40 ~ 85 ℃ (- 40 ~ 185 °F) Ambient Relative Humidity: 5 ~ 95% (non-condensing)
Standards	Power Automation: IEC 61850-3, IEEE 1613 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), EN61000-4-8, EN61000-4-11 Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6 Safety: EN60950-1 IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX IEEE 802.3ab for 1000Base-T IEEE 802.z for 1000Base-X IEEE 802.3x for Flow control IEEE 802.3ad for LACP (Link Aggregation Control Protocol) IEEE 802.1p for COS (Class of Service) IEEE 802.1Q for VLAN Tagging IEEE 802.1D for STP (Spanning Tree Protocol) IEEE 802.1w for RSTP (Rapid Spanning Tree Protocol) IEEE 802.1s for MSTP (Multiple Spanning Tree Protocol) IEEE 802.1 for Authentication IEEE 802.1AB for LLDP (Link Layer Discovery Protocol)
Warranty	5 years

ES105P Series

5-port EN50155 POE Ethernet Switches

▸ **Supports 4 x 10/100 Base-T(X) with 802.3at P.S.E. PoE ports**
▸ **Support auto-negotiation and auto-MDI/MDI-X**
▸ **4 port P.S.E. fully compliant with IEEE802.3at standard, provide up to 30 Watts per port**
▸ **Support store and forward transmission**
▸ **Support flow control**
▸ **Ultra-rugged enclosure M12 connector for toughest industrial usages**
▸ **Wall mounting enabled**

Overview:

The ES105P series Ethernet switches are designed for industrial applications, such as rolling stock, vehicle, and railway applications. It has 4x10/100BaseT(X) P.S.E. ports and 1x10/100/1000BaseT(X) port which is compliant with EN50155 requirement. It is specifically designed for the toughest industrial environments.

The ES105P series EN50155 Ethernet switch use M12 connectors to ensure tight, robust connections, and guarantee reliable operation against environmental disturbances, such as vibration and shock. It also support Power over Ethernet (4 P.S.E. (Power Sourcing Equipment) port to provide power in a PoE setup), a system to transmit electrical power up to 30 watts, along with data, to remote devices over standard twisted-pair cable in an Ethernet network. The wide operating temperature range from -40 to 70°C can satisfy most operating environment.

Dimensions:

Size: （mm）

Vertical view

side view | side view | Front view
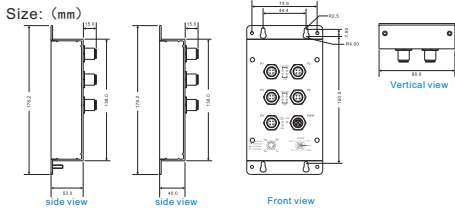
Order information:

Model No	Description		Watt per port / Total watt
	10/100/BaseT(X)	10/100/1000 BaseT(X)	
WT-ES-10104_G-AF	4	1	15.4W/60W
WT-ES-10104_G-AT	4	1	25.5W/120W

Specifications :

Switch Properties	MAC Table size: 8K Packet Buffer Size: 1 Mbit Jumbo Frame Size: 9.6 KB Processing Type: Store and Forward Flow Control: IEEE 802.3x flow control, back pressure flow control
Interface	Rj45 ports: 10/100/1000 Base-T(X) Port in M12 D-coding Auto MDI/MDIX RJ45 ports: 10/100 Base-T(X) with P.S.E. Ports in M12 D-coding Auto MDI/MDIX LED Indicators: PWR,L/A,SPD, PoE
Power Requirement	Input : 48 VDC (46 ~ 50 V), redundant dual inputsInput Current: 3 A @ 48 VDC Connection: M12 socket (A-coding), single power input Overload Current Protection: Present Reverse Polarity Protection: Present
Physical Characteristics	Housing: Aluminum , IP40 protection Dimension: 89 x 53 x 178 mm (3.5 x 2.1 x 7 inch) Weight: 450g Installation: Field-style mounting, DIN-Rail mounting (with optional kit)
Environmental Limits	Operating Temperature: -40 ~ 85 ℃ (- 40 ~ 185 °F) Storage Temperature: -40 ~ 85 ℃ (- 40 ~ 185 °F) Ambient Relative Humidity: 5 ~ 95% (non-condensing)
Standards	E M I : FCC Part 15, CISPR (EN55022) class A, EN50155 (EN50121-3-2, EN55011, EN50121-4) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8, EN61000-4-9, EN61000-4-11,IEEE 1613 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6 MTBF （mean time between failures）：305,000 hrs EEE 802.3af / IEEE 802.3at for PoE IEEE 802.3for10BaseT IEEE 802.3ufor100BaseTX and 100BaseFX IEEE 802.3ab for 1000BaseT（X） IEEE 802.3x for Flow Control
Warranty	5 years

ES108A Series

8-port EN50155 Industrial Ethernet Switches

- 8 fast Ethernet ports and 2 Gigabit combo ports, SFP socket
- Designed for Railway application and fully compliant with the EN50155 compliant Ethernet switch for railway applications
- Supports auto-negotiation and auto-MDI/MDI-X
- Supports store-and-forward transmission
- Supports flow control
- Warning system by relay output
- Ultra-rugged enclosure for toughest industrial usages
- M12 connectors to guarantee reliable operation against environmental disturbances
- Dual wide-range 12~48VDC power inputs on the M23 connector
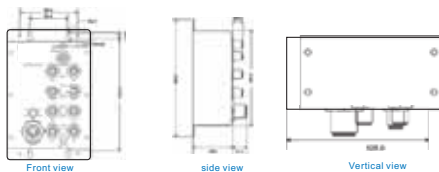- Wall mounting enabled

Overview:

The ES108A series Ethernet switches are designed for industrial applications, such as rolling stock, vehicle, and railway applications. It has 8x10/100BaseT(X) port which is compliant with EN50155 requirement. It is specifically designed for the toughest industrial environments.

By using M12 connectors, you can rest assured that Ethernet cables will connect tightly to the switch, and will be robust enough to protect your applications from external disturbances, such as the vibration and shock encountered in the transportation industry. In addition, the wide operating temperature range from -40°C to 85°C can satisfy most of tough operating environments.

Dimensions:

Size:（mm）

Front view   side view   Vertical view

Order information:

Model No	Description
	10/100BaseT(X)
WT-ES-10008	8

Specifications :

Switch Properties	MAC Table size: 8K Packet Buffer Size: 1 Mbit Jumbo Frame Size: 9.6 KB Processing Type: Store and Forward Flow Control: IEEE 802.3x flow control, back pressure flow control
Interface	Rj45 ports: 10/100 Base-T(X) port in M12 D-coding Auto MDI/MDIX LED Indicators: PWR,L/A,SPD
Power Requirement	Input Voltage: Dual 12~48VDC Power Consumption: 5 Watts Connection: M23 connector Overload Current Protection: Present Reverse Polarity Protection: Present
Physical Characteristics	Housing: Aluminum, IP40 protection Dimension: 125 * 65 * 196 mm (4.9 x 2.6 x 7.7 in) Weight: 800g Installation: Field-style mounting, DIN-Rail mounting (with optional kit)
Environmental Limits	Operating Temperature: -40 ~ 85 ℃ (- 40 ~ 185 °F) Storage Temperature: -40 ~ 85 ℃ (- 40 ~ 185 °F) Ambient Relative Humidity: 5 ~ 95% (non-condensing)
Standards	E M I : FCC Part 15, CISPR (EN55022) class A, EN50155 (EN50121-3-2, EN55011, EN50121-4) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8, EN61000-4-9, EN61000-4-11,IEEE 1613 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6 MTBF (mean time between failures) ：305,000 hrs IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseTX and 100BaseFX IEEE 802.3ab for 1000BaseT（X) IEEE 802.3x for Flow Control
Warranty	5 years

ES118M Series

18-port EN50155 Industrial Ethernet Switches

▸ EN50155 compliant Ethernet switch for railway applications
▸ Support ERPS, STP/RSTP/MSTP for network redundancy
▸ IGMP Snooping for filtering multicast traffic
▸ Port-based VLAN, IEEE 802.1Q VLAN, and GVRP to ease network planning
▸ Port Trunking for optimum bandwidth utilization
▸ RADIUS,TACACS+,SNMPv3,IEEE 802.1X,HTTPS and SSH to enhance network security
▸ QoS (IEEE 802.1p/CoS) and ToS/DiffServ to increase determinism
▸ SNMPv1/v2c/v3 for different levels of network management
▸ RMON for efficient network monitoring and proactive capability
▸ Support port mirroring
▸ Bandwidth management prevents unpredictable network status
▸ Lock port function for blocking unauthorized access based on MAC address
▸ Automatic alarm through e-mail, relay out
▸ User friendly UI and command command Line Interface (CLI) for quickly configuring major managed functions
▸ M12 connectors to guarantee reliable operation against environmental disturbances
▸ Wall mounting enabled

Overview:

The ES118M series Ethernet switches are designed for industrial applications, such as rolling stock, vehicle, and railway applications. It has 16x10/100Base-T(X) and 2x10/100/1000Base-T(X) ports which is compliant with EN50155 requirement. It is specifically designed for the toughest industrial environments.

With completely support of Ethernet Redundancy protocol, ERPS and RSTP/STP can protect your mission-critical applications from network interruptions or temporary malfunctions with its fast recovery technology. ES118M series supports functions of network management, such as SNMP, RMON, Port Trunking, and Port/Tag-based VLAN security. In addition, the wide operating temperature range from -40 to 85℃ can satisfy most of operating environment. Therefore, the switch is one of the most reliable choices for rolling stock and highly-managed Ethernet application.

Dimensions:

Size:（mm）

| Front view | side view | Vertical view |

Order information:

Model No	Description	
	10/100BaseT(X)	10/100/1000BaseT(X)
WT-ES-10216_G	16	2

Specifications:

Protocols	IGMPv1/v2/v3, GMRP, GVRP, SNMPv1/v2c/v3,DHCP Server/Client, DHCP Option 66/67/82,BootP,TFTP, SNTP,SMTP, RARP, RMON, HTTP, HTTPS,Telnet, SSH, Syslog,EtherNet/IP, PROFINET,Modbus/TCP, SNMP Inform, LLDP,IEEE 1588 PTP V2, IPv6, NTP Server/Client
MIB	MIB-II, Ethernet-Like MIB, P-BRIDGE MIB,Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1, 2, 3, 9
Flow Control	IEEE 802.3x flow control, back pressure flow control
Switch Properties	Priority Queues: 4 IGMP Groups: 256 Jumbo Frame Size:9.6 KB Max. Number of Available VLANs: 64 MAC Table size:8K VLAN ID Range: VID 1 to 4094 Packet Buffer Size:1Mbit
Interface	Rj45 ports: 10/100/1000 Base-T(X) Port in M12 D-coding Auto MDI/MDIX RJ45 ports: 10/100 Base-T(X) Ports in M12 D-coding Auto MDI/MDIX Console Port: RS-232 in M12 connector LED Indicators: PWR,L/A,SPD
Power Requirement	Input Voltage: Dual 12~48VDC Power Consumption: 11 Watts Connection: M23 connector Overload Current Protection：Present Reverse Polarity Protection: Present
Physical Characteristics	Housing: Aluminum，IP40 protection Dimensions: 170 x 196 x 75mm (6.7 x 7.7 x 2.95 in) Weight: 1400g Installation: Field-style mounting, DIN-Rail mounting (with optional kit)
Environmental Limits	Operating Temperature: -40 ~ 85 ℃（- 40 ~ 185 °F) Storage Temperature: -40 ~ 85 ℃（- 40 ~ 185 °F) Ambient Relative Humidity: 5 ~ 95% (non-condensing)
Standards	EMI : FCC Part 15 Subpart B Class A, EN 61000-6-4(Industrial) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8, IEEE 1613 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6 MTBF （mean time between failures）：305,000 hrs IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX IEEE 802.3ab for 1000Base-T IEEE 802.1D for Spanning Tree Protocol IEEE 802.1w for Rapid Spanning Tree Protocol IEEE 802.1s for Multiple Spanning Tree Protocol IEEE 802.1Q for VLAN Tagging IEEE 802.1p for Class of Service IEEE 802.1X for Authentication IEEE 802.3ad for Port Trunk with LACP IEEE 802.3x for Flow Control
Warranty	5 years

BS104M Series

14- port IEC60079-11 Intrinsic Safety Industrial Ethernet switches

▸ 2 10/100BaseT(X) ports and 2 1000BaseF(X) ports and 2 ports RS485
▸ Comply with IEC60079-11(GB3836.4) of explosive atmospheres.
▸ Support ERPS, STP/RSTP/MSTP for network redundancy
▸ IGMP Snooping for filtering multicast traffic
▸ Port-based VLAN, IEEE 802.1Q VLAN, and GVRP to ease network planning
▸ Port Trunking for optimum bandwidth utilization
▸ RADIUS,TACACS+,SNMPv3,IEEE 802.1X,HTTPS and SSH to enhance network security
▸ QoS (IEEE 802.1p/CoS) and ToS/DiffServ to increase determinism
▸ SNMPv1/v2c/v3 for different levels of network management
▸ RMON for efficient network monitoring and proactive capability
▸ Support port mirroring
▸ Bandwidth management prevents unpredictable network status
▸ Lock port function for blocking unauthorized access based on MAC address
▸ User friendly UI and command command Line Interface (CLI) for quickly configuring major managed functions

Overview:

The BS104M series Ethernet switches is designed for use in explosive atmospheres environment, low consumption, without housing. It has 2x10/100Base-T(X) and 2x10/100Base-F(X) ports, furthermore, it can support 2 ports RS485, AT command and alarm output.

The BS104M comply with intrinsic safety, have advanced insulation performance, damp proofing, support fiber transmitting and forwarding, multiple redundant topology, remote monitoring, etc. Apply to explosive atmospheres, high dust, corrosive condition, such as coal mine, chemical factory, oil field and so on.

Dimensions:

Size：（mm）
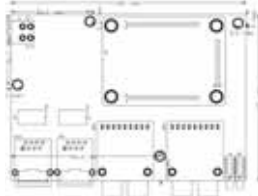
Order information:

Model No	Description		
	10/100BaseT(X)	100BaseT(X)	RS-485
WT-BS-80202	2	2	2

Specifications :

Switch Properties	Priority Queues: 4 Max. Number of Available VLANs: 64 VLAN ID Range: VID 1 to 4094IGMP　　　　　Groups: 256 MAC Table size: 8K　　　　　Packet Buffer Size: 1 Mbit Jumbo Frame Size: 10 KB
Interface	Fiber Ports: 100BaseF(X) RJ45 Ports: 10/100BaseT(X) auto negotiation speed, and auto MDI/MDI-X connection Serial ports: RS485
Power Requirement	Input Voltage: 12 (9-24VDC)　　　Input Current: 12 VDC / 0.6 A Connection: 2 removable 2-contact terminal blocks　　Overload Current Protection：Present Reverse Polarity Protection: Present
Physical Characteristics	Dimensions: 130 x 107 x 35mm (5.1 x 4.2 x 1.37 in) Weight: 300g Installation: support location holes for users
Environmental Limits	Operating Temperature: -40 ~ 85 ℃ (- 40 ~ 185 °F) Storage Temperature: -40 ~ 85 ℃ (- 40 ~ 185 °F) Ambient Relative Humidity: 5 ~ 95% (non-condensing)
Standards	EMI : FCC Part 15 Subpart B Class A, EN 61000-6-4(Industrial) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8, IEEE 1613 MTBF （mean time between failures）： 305,000 hrs IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT（X）and 100BaseFX IEEE 802.3x for Flow Control Processing Type：Store and Forward Flow Control：IEEE 802.3x flow control, back pressure flow control
Warranty	5 years

BS109M Series

9- port IEC60079-11 Intrinsic Safety Industrial Ethernet switches

- ▶ 3 1000Base-x ports with SFP connecters, 6 10/100Base-T(x) ports with RJ45 connecters.
- ▶ Comply with IEC60079-11(GB3836.4) of explosive atmospheres.
- ▶ Support ERPS, STP/RSTP/MSTP for network redundancy
- ▶ IGMP Snooping for filtering multicast traffic
- ▶ Port-based VLAN, IEEE 802.1Q VLAN, and GVRP to ease network planning
- ▶ Port Trunking for optimum bandwidth utilization
- ▶ RADIUS,TACACS+,SNMPv3,IEEE 802.1X,HTTPS and SSH to enhance network security
- ▶ QoS (IEEE 802.1p/CoS) and ToS/DiffServ to increase determinism
- ▶ SNMPv1/v2c/v3 for different levels of network management
- ▶ RMON for efficient network monitoring and proactive capability
- ▶ Support port mirroring
- ▶ Bandwidth management prevents unpredictable network status
- ▶ Lock port function for blocking unauthorized access based on MAC address
- ▶ User friendly UI and command command Line Interface (CLI) for quickly configuring major managed functions

Overview:

The BS109M series Ethernet switches is designed for use in explosive atmospheres environment, low consumption, without housing. Comply with intrinsic safety, have advanced insulation performance, damp proofing, support fiber transmitting and forwarding, multiple redundant topology, remote monitoring, etc.

Apply to explosive atmospheres, high dust, corrosive condition, such as coal mine, chemical factory, oil field and so on.

Dimensions:

Size: （mm）
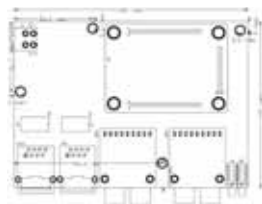
Order information:

Model No	Description	
	10/100BaseT(X)	1000BaseT(X)
WT-BS-80306_G	6	3

Specifications :

Switch Properties	Priority Queues: 4 Max. Number of Available VLANs: 64 VLAN ID Range: VID 1 to 4094 IGMP Groups: 251 MAC Table size:8K Packet Buffer Size:1 Mbit Jumbo Frame Size:9.6KB
Interface	Fiber Ports:1000BaseF(X) SFP slot Rj45 Ports: 10/100BaseT(X) auto negotiation speed, and auto MDI/MDI-X connection Alarm Contact:1 relay output with current carrying capacity of 1 A @24 VDC
Power Requirement	Input Voltage:12 (9-24VDC) Input Current:12 VDC / 0.6 A Overload Current Protection:Present Connection:2 removable 2-contact terminal blocks Reverse Polarity Protection:Present
Physical Characteristics	Dimensions:135 x 107 x 35mm (5.1 x 4.2 x 1.37 in) Weight:300g Installation:support location holes for users
Environmental Limits	Operating Temperature:-40 ~ 85 ℃ (- 40 ~ 185 °F) Storage Temperature:-40 ~ 85 ℃ (- 40 ~ 185 °F) Ambient Relative Humidity:5 ~ 95% (non-condensing)
Standards	EMI : FCC Part 15 Subpart B Class A, EN 61000-6-4(Industrial) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8, IEEE 1613 MTBF （mean time between failures）：305,000 hrs IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT（X）and 100BaseFX IEEE 802.3ab for 1000BaseT（X） IEEE 802.3x for Flow Control
Warranty	5 years

WT Family

Overview:

The WT family is a family of switches that devoted to providing feature rich, high-quality networking solutions for outdoor harsh environment with outstanding quality and good price.

Features:

Industrial grade chip scheme

EMC-4 grade design

Outdoor wide temperature: -20°C 至 60 °C (- 4 ~ 140 °F)

All port anti-lighting (6KV); 3KV isolation protection

IP30 protection, metal shell,No fan, low consumption

Support PoE function (PSE or PD optional)

Match the surveillance video communication demanding for security industries

MC102P Series

2-port POE Ethernet Switches

▸ Support 1pcs RJ45 Ethernet port and 1pcs fiber ports (SC or ST, SFP optional)
▸ Supports IEEE 802.3af/IEEE802.3at compliant PoE enabled device
▸ Supports 10 KB jumbo frames
▸ Support broadcast storm shield
▸ Support store and forward transmission
▸ Support back pressure flow control
▸ Intelligent power consumption detection and classification
▸ Smart PoE over current and short circuit protection
▸ No fan, low consumption,EMC-4 grade design
▸ All port anti-lighting (6KV)
▸ 3KV isolation protection
▸ Ip30 protection, metal shell

Overview:

The MC102P series Ethernet switches is designed to meet IEEE802.3af and IEEE802.3at standards for powering network devices, which supports 1 10/100/1000Base-T(x) + 1 1000Base-FX interfaces. With PoE, installation of network devices such as IP surveillance cameras, wireless access points, IP phones, and other PoE enabled devices in hard-to-reach, outdoor, and remote areas is simplified.

No fan, low consumption and industrial grade design. More steadily work capability. To satisfy applications in outdoor environments, it provide wide temperature (-20 ~ 60°C) .

Dimensions:

Size: (mm)

Top view　　Side view　　Front view

Back view
185.00
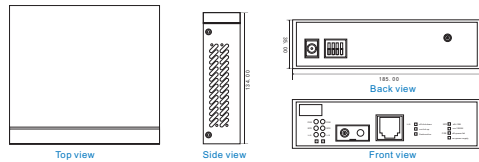
Order information:

Model No.	Description		Watt per port / Total watt
	10/100/1000BaseT(X)	1000BaseF(X) or SFP	
WT-MC-10101G-AF	1	1	15.4W/20W
WT-MC-10101G-AT	1	1	25.5W/30W
	10/100BaseT(X)	100BaseF(X) or SFP	
WT-MC-10101-AF	1	1	15.4W/20W
WT-MC-10101-AT	1	1	25.5W/30W

Specifications:

Switch Properties	MAC Table size:8K Packet Buffer Size:1 Mbit Jumbo Frame Size:10KB Processing Type:Store and Forward Flow Control: IEEE 802.3x flow control, back pressure flow control
Interface	Rj45 Port:10/100 or 10/100/1000M auto connection, Full/Half duplex or force work mode, and support MDI/MDI-X connection; End-span (Mid-Span option) Fiber Port:100 or 1000Base-FX ports (SC/ST optional, SFP optional) LED Indicators:PWR,L/A,SPD, PoE
Power Requirement	Input Voltage: 110~220VDC（100~300VDC）Or100~240VAC（85~264VAC） Input Current: 0.25A（@110VAC/VDC) Connection: 3 bits terminal block Overload Current Protection: Present
Physical Characteristics	Housing: IP30protection, Metal case Dimensions: 185mm*134mm*35mm (7.3 x 5.3 x 1.4 in) Weight: 700g Installation: Desktop, Wall mounting
Environmental Limits	Operating Temperature: -20 ~ 60 ℃ (- 4 ~ 140 °F) Storage Temperature: -40 ~ 85 ℃ (- 40 ~ 185 °F) Ambient Relative Humidity: 5 ~ 95% (non-condensing)
Standards	E M I : FCC Part 15, CISPR (EN55022) class A, EN50155 (EN50121-3-2, EN55011, EN50121-4) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8, EN61000-4-9, EN61000-4-11,IEEE 1613 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6 MTBF （mean time between failures）: 305,000 hrs IEEE 802.3af / IEEE 802.3at for PoE IEEE 802.3for10BaseT IEEE 802.3ufor100BaseTX and 100BaseFX IEEE 802.3ab for 1000BaseT（X) IEEE 802.3x for flow control, back pressure flow control
Warranty	5 years

DS105A Series

5-port Ethernet Switches

- Up to 4 FE RJ45 ports and 1 GE fiber ports, or, 4 FE RJ45 ports and 1 GE RJ45 ports
- Broadcast storm protection
- Transparent transmission of VLAN tagged packets
- Plug and Play configuration
- Supports 10 KB jumbo frames
- Broadcast storm protection
- Support store and forward transmission
- Support back pressure flow control
- No fan, low consumption,EMC-4 grade design
- All port anti-lighting (6KV)
- 3KV isolation protection
- IP30 protection, metal shell
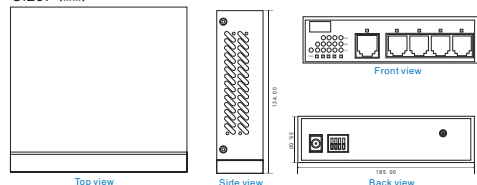- PoE/PoE+ option

Overview:

DS105A Series is an entry-level 6-port Ethernet switches that support IEEE 802.3/802.3u/802.3x with 10/100M, full/half duplex, MDI/MDIX auto-sensing RJ45 ports. No fan, low consumption and industrial grade design. More steadily work capability.

DS105A is rated to operate at temperatures ranging from -20 to 60°C, and undergoes a 100% burn-in test to ensure that they fulfill the special needs of outdoor environment.

Specifications:

Switch Properties	MAC Table size: 8K Packet Buffer Size: 1 Mbit Jumbo Frame Size: 10KB Processing Type: Store and Forward Flow Control: IEEE 802.3x flow control, back pressure flow control
Interface	Rj45 Port: 10/100 or 10/100/1000BaseT(X) auto connection, Full/Half duplex or force work mode, and support MDI/MDI-X connection Fiber Port: 100 or 1000Base-FX ports (SC/ST optional, SFP optional) LED Indicators: PWR,L/A,SPD, PoE(option)
Power Requirement	nput Voltage: 110/220 VAC (85 ~ 264 VAC) Input Current: 0.25A (@110VAC/VDC) Connection: 3 bits terminal block Overload Current Protection: Present
Physical Characteristics	Housing: IP30protection, Metal case Dimensions: 185mm*134mm*35mm (7.3 x 5.3 x 1.4 in) or 135mm*123mm*35mm (5.3 x 4.8 x 1.4 in) Weight: 700g or 550g Installation: Desktop, Wall mounting
Environmental Limits	Operating Temperature: -20 ~ 60 ℃ (- 4 ~ 140 °F) Storage Temperature: -40 ~ 85 ℃ (- 40 ~ 185 °F) Ambient Relative Humidity: 5 ~ 95% (non-condensing)
Standards	E M I : FCC Part 15, CISPR (EN55022) class A, EN50155 (EN50121-3-2, EN55011, EN50121-4) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8, EN61000-4-9, EN61000-4-11,IEEE 1613 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6 MTBF （mean time between failures）: 305,000 hrs IEEE 802.3for10BaseT IEEE 802.3ufor100BaseTX and 100BaseFX IEEE 802.3ab for 1000BaseT（X） IEEE 802.3x for flow control, back pressure flow control
Warranty	5 years

Dimensions:

Size: (mm)

Top view | Side view | Front view | Back view

Order information:

Model No	Description	
	10/100BaseT(X)	1000BaseF(X) or SFP
WT-DS-10104_G	4	1
	10/100BaseT(X)	100BaseF(X) or SFP
WT-DS-10104	4	1
	10/100BaseT(X)	10/100/1000BaseT(X)
WT-DS-10005_G	4	1

DS106A Series

6-port Ethernet Switches

▸ Up to 4 FE RJ45 ports and 2 FE fiber ports
▸ Broadcast storm protection
▸ Transparent transmission of VLAN tagged packets
▸ Plug and Play configuration
▸ Supports 9.6 KB jumbo frames
▸ Broadcast storm protection
▸ Support store and forward transmission
▸ Support back pressure flow control
▸ No fan, low consumption, EMC-4 grade design
▸ All port anti-lighting (6KV)
▸ 3KV isolation protection
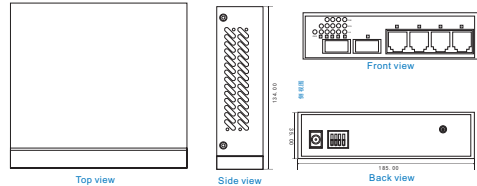▸ IP30 protection, metal shell
▸ PoE/PoE+ option

Overview:

DS106A Series is an entry-level 6-port Ethernet switches that support IEEE 802.3/802.3u/802.3x with 10/100M, full/half duplex, MDI/MDIX auto-sensing RJ45 ports. No fan, low consumption and industrial grade design. More steadily work capability.

DS106A is rated to operate at temperatures ranging from -20 to 60°C, and undergoes a 100% burn-in test to ensure that they fulfill the special needs of outdoor environment.

Dimensions:

Size:（mm）

Top view

Side view

Front view

Back view

Order information:

Model No	Description	
	10/100BaseT(X)	1000BaseF(X) or SFP
WT-DS-10204	4	2

Specifications:

Switch Properties	AC Table size: 8K Packet Buffer Size:1 Mbit Jumbo Frame Size: 9.6KB Processing Type: Store and Forward Flow Control: IEEE 802.3x flow control, back pressure flow control
Interface	Rj45 Port: 10/100BaseT(X) auto connection, Full/Half duplex or force work mode, and support MDI/MDI-X connection Fiber Port: 100BaseF(X) ports (SC/ST optional, SFP optional) LED Indicators: PWR,L/A,SPD, PoE(option)
Power Requirement	nput Voltage: 110/220 VAC (85 ~ 264 VAC) Input Current: 0.25A（@110VAC/VDC) Connection: 3 bits terminal block Overload Current Protection: Present
Physical Characteristics	Housing: IP30protection, Metal case Dimensions: 185mm*134mm*35mm (7.3 x 5.3 x 1.4 in) Weight: 700g Installation: Desktop, Wall mounting
Environmental Limits	Operating Temperature: -20 ~ 60 ℃（- 4 ~ 140 °F） Storage Temperature: -40 ~ 85 ℃（- 40 ~ 185 °F） Ambient Relative Humidity: 5 ~ 95% (non-condensing)
Standards	E M I : FCC Part 15, CISPR (EN55022) class A, EN50155 (EN50121-3-2, EN55011, EN50121-4) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8, EN61000-4-9, EN61000-4-11,IEEE 1613 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6 MTBF （mean time between failures）: 305,000 hrs IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseTX and 100BaseFX IEEE 802.3ab for 1000BaseT（X） IEEE 802.3x for flow control, back pressure flow control
Warranty	5 years

WT 源拓

DS109A Series

5/9-port Ethernet Switches

▶ Up to 4 FE RJ45 ports and 2 FE fiber ports
▶ Broadcast storm protection
▶ Transparent transmission of VLAN tagged packets
▶ Plug and Play configuration
▶ Supports 9.6 KB jumbo frames
▶ Broadcast storm protection
▶ Support store and forward transmission
▶ Support back pressure flow control
▶ No fan, low consumption, EMC-4 grade design
▶ All port anti-lighting (6KV)
▶ 3KV isolation protection
▶ IP30 protection, metal shell
▶ PoE/PoE+ option

Overview:

DS109A Series is an entry-level 9-port Ethernet switches that support IEEE 802.3/802.3u/802.3x with 10/100M, full/half duplex, MDI/MDIX auto-sensing RJ45 ports. No fan, low consumption and industrial grade design. More steadily work capability.

DS109A is rated to operate at temperatures ranging from -20 to 60°C, and undergoes a 100% burn-in test to ensure that they fulfill the special needs of outdoor environment.

Dimensions:

Size: (mm)

Top view	Side view	Back view / Front view

135.00

116.00 / 60.00
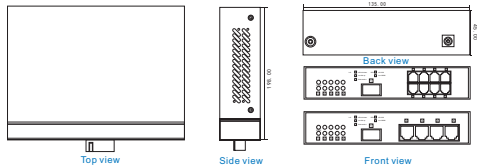
Order information:

Model No	Description	
	10/100BaseT(X)	100BaseF(X) or SFP
WT-DS-10108	8	1
WT-DS-10104	4	1

Specifications :

Switch Properties :	MAC Table size: 8K Packet Buffer Size: 1 Mbit Processing Type: Store and Forward Flow Control: IEEE 802.3x flow control, back pressure flow control
Interface	Rj45 Port: 10/100BaseT(X) auto connection, Full/Half duplex or force work mode, and support MDI/MDI-X connection Fiber Port: 100BaseF(X) ports (SC/ST optional, SFP optional) LED Indicators: PWR,L/A,SPD
Power Requirement	Input Voltage: 110/220 VAC (85 ~ 264 VAC) Input Current: 0.25A (@110VAC/VDC) Connection: 3 bits terminal block Overload Current Protection: Present
Physical Characteristics	Housing: IP30protection, Metal case Dimensions: 185mm*134mm*35mm (7.3 x 5.3 x 1.4 in) Weight: 700g Installation: Desktop, Wall mounting
Environmental Limits	Operating Temperature: -20 ~ 60 ℃ (- 4 ~ 140 °F) Storage Temperature: -40 ~ 85 ℃ (- 40 ~ 185 °F) Ambient Relative Humidity: 5 ~ 95% (non-condensing)
Standards	E M I : FCC Part 15, CISPR (EN55022) class A, EN50155 (EN50121-3-2, EN55011, EN50121-4) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8, EN61000-4-9, EN61000-4-11,IEEE 1613 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6 MTBF （mean time between failures）: 305,000 hrs IEEE 802.3for10BaseT IEEE 802.3ufor100BaseTX and 100BaseFX IEEE 802.3x for flow control, back pressure flow control
Warranty	5 years

DS110A Series

10-port Ethernet Switches

▶ Up to 8 10/100BaseT(X)ports and 2 1000BaseF(X) port
▶ Broadcast storm protection
▶ Transparent transmission of VLAN tagged packets
▶ Plug and Play configuration
▶ Broadcast storm protection
▶ Support store and forward transmission
▶ Support back pressure flow control
▶ No fan, low consumption, EMC-4 grade design
▶ All port anti-lighting (6KV)
▶ 3KV isolation protection
▶ IP30 protection, metal shell
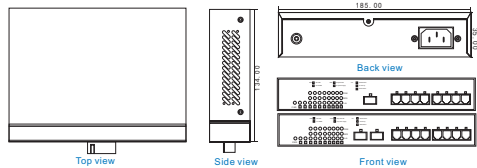▶ PoE/PoE+ option

Overview:

DS110A Series is an entry-level 6-port Ethernet switches that support IEEE 802.3/802.3u/802.3x with 10/100M, full/half duplex, MDI/MDIX auto-sensing RJ45 ports. No fan, low consumption and industrial grade design. More steadily work capability.

DS110A is rated to operate at temperatures ranging from -20 to 60°C, and undergoes a 100% burn-in test to ensure that they fulfill the special needs of outdoor environment.

Specifications:

Switch Properties:	MAC Table size: 8K Packet Buffer Size: 1 Mbit Processing Type: Store and Forward Flow Control: IEEE 802.3x flow control, back pressure flow control
Interface	Rj45 Port: 10/100BaseT(X) auto connection, Full/Half duplex or force work mode, and support MDI/MDI-X connection Fiber Port: 100BaseF(X) ports (SC/ST optional, SFP optional) LED Indicators: PWR,L/A,SPD, PoE(option)
Power Requirement	Input Voltage: 110/220 VAC (85 ~ 264 VAC) Input Current: 0.25A（@110VAC/VDC) Connection: 3 bits terminal block Overload Current Protection: Present
Physical Characteristics	Housing: IP30protection, Metal case Dimensions: 290mm*165mm*45mm (11.4 x 6.5 x 1.8 in) Weight: 1200g Installation: Desktop, Wall mounting
Environmental Limits	Operating Temperature: -20 ~ 60 ℃（- 4 ~ 140 °F) Storage Temperature: -40 ~ 85 ℃（- 40 ~ 185 °F) Ambient Relative Humidity: 5 ~ 95% (non-condensing)
Standards	E M I : FCC Part 15, CISPR (EN55022) class A, EN50155 (EN50121-3-2, EN55011, EN50121-4) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8, EN61000-4-9, EN61000-4-11,IEEE 1613 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6 MTBF （mean time between failures）: 305,000 hrs IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseTX and 100BaseFX IEEE 802.3z for 1000BaseX IEEE 802.3x for flow control, back pressure flow control
Warranty	5 years

Dimensions:

Size:（mm）

185.00

Back view

Top view　　Side view　　Front view

Order information:

Model No	Description	
	10/100BaseT(X)	1000BaseF(X) or SFP
WT-DS-10208_G	8	2
WT-DS-10108_G	8	1

DS106GSeries

6-port Full Gigabyte Ethernet Switches

▸ **Up to 4 GE RJ45 ports and 2 GE fiber ports, or, 5 GE RJ45 ports and 1 GE fiber ports**
▸ **Broadcast storm protection**
▸ **Transparent transmission of VLAN tagged packets**
▸ **Plug and Play configuration**
▸ **Supports 10 KB jumbo frames**
▸ **Broadcast storm protection**
▸ **Support store and forward transmission**
▸ **Support back pressure flow control**
▸ **No fan, low consumption, EMC-4 grade design**
▸ **All port anti-lighting (6KV)**
▸ **3KV isolation protection**
▸ **IP30 protection, metal shell**
▸ **PoE/PoE+ option**

Overview:

The DS106G series is an 6-port full Gigabyte Ethernet switches that support to 4 10/100/1000BaseT(x) + 2 1000BaseF(X) ports, or, 5 10/100/1000BaseT(x) + 1 1000BaseF(X) ports, making it ideal for upgrading an existing network to Gigabyte speed or building a new full Gigabyte backbone. Gigabit transmission increases bandwidth for higher performance and transfers large amounts of triple play services across a network quickly.

The DS106G series is rated to operate at temperatures ranging from -20 to 60°C, no fan, low consumption and industrial grade design,more steadily work capability, and undergoes a 100% burn-in test to ensure that they fulfill the special needs of outdoor environment, especially for communication demanding applications, such as video and process monitoring, ITS, and DCS systems.

Dimensions:

Size:（mm）

Back view

Side view

Top view

Front view
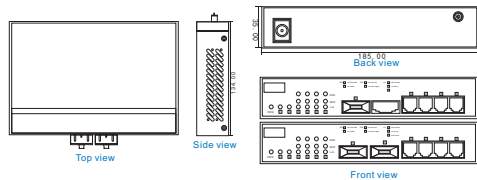
Order information:

Model No	Description	
	10/100/1000BaseT(X)	1000BaseF(X)
WT-DS-10204G	4	2
WT-DS-10105G	5	1

Specifications:

Switch Properties	MAC Table size: 8K Packet Buffer Size: 1 Mbit Jumbo Frame Size: 10KB Processing Type: Store and Forward Flow Control: IEEE 802.3x flow control, back pressure flow control
Interface	Rj45 Port: 10/100/1000BaseT(X) auto connection, Full/Half duplex or force work mode, and support MDI/MDI-X connection Fiber Port: 1000BaseF(X) ports (SC/ST optional, SFP optional) LED Indicators: PWR,L/A,SPD, PoE(option)
Power Requirement	Input Voltage: 110/220 VAC (85 ~ 264 VAC) Input Current: 0.25A（@110VAC/VDC) Connection: 3 bits terminal block Overload Current Protection: Present
Physical Characteristics	Housing: IP30protection, Metal case Dimensions: 185mm*123mm*35mm (7.3 x 4.8 x 1.37 in) Weight: 650g Installation: Desktop, Wall mounting
Environmental Limits	Operating Temperature: -20 ~ 60 ℃ (- 4 ~ 140 °F) Storage Temperature: -40 ~ 85 ℃ (- 40 ~ 185 °F) Ambient Relative Humidity: 5 ~ 95% (non-condensing)
Standards	E M I : FCC Part 15, CISPR (EN55022) class A, EN50155 (EN50121-3-2, EN55011, EN50121-4) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8, EN61000-4-9, EN61000-4-11,IEEE 1613 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6 MTBF （mean time between failures）: 305,000 hrs IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseTX and 100BaseFX IEEE 802.3ab for 1000BaseT（X) IEEE 802.3z for 1000BaseX IEEE 802.3x for flow control, back pressure flow control
Warranty	5 years

DS116G Series

16-port Full Gigabyte Ethernet Switches

▸ **Up to 12 GE RJ45 ports and 4 GE fiber ports**
▸ **Broadcast storm protection**
▸ **Transparent transmission of VLAN tagged packets**
▸ **Plug and Play configuration**
▸ **Supports 9.6 KB jumbo frames**
▸ **Broadcast storm protection**
▸ **Support store and forward transmission**
▸ **Support back pressure flow control**
▸ **No fan, low consumption, EMC-4 grade design**
▸ **All port anti-lighting (6KV)**
▸ **3KV isolation protection**
▸ **IP30 protection, metal shell**
▸ **PoE/PoE+ option**

Overview:

The DS116G series is an 16-port full Gigabyte Ethernet switches that support to 12 10/100/1000BaseT(x) + 4 1000BaseF(X) ports, making it ideal for upgrading an existing network to Gigabit speed or building a new full Gigabit backbone. Gigabit transmission increases bandwidth for higher performance and transfers large amounts of triple play services across a network quickly.

The DS116G series is rated to operate at temperatures ranging from -20 to 60°C, no fan, low consumption and industrial grade design,more steadily work capability, and undergoes a 100% burn-in test to ensure that they fulfill the special needs of outdoor environment, especially for communication demanding applications, such as video and process monitoring, ITS, and DCS systems.

Dimensions:

Size:（mm）

Top view   Side view   Front view
Back view
320.00
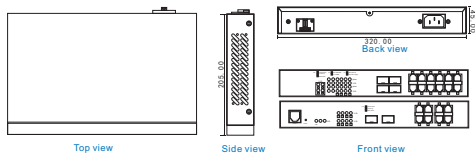
Order information:

Model No	Description	
	10/100/1000BaseT(X)	1000BaseF(X) or SFP
WT-DS-10412G	12	4
WT-DS-10208G	8	2

Specifications：

Switch Properties	MAC Table size:8K Packet Buffer Size:4 Mbit Jumbo Frame Size:9.6KB Processing Type:Store and Forward Flow Control: IEEE 802.3x flow control, back pressure flow control
Interface	Rj45 Port:10/100/1000BaseT(X) auto connection, Full/Half duplex or force work mode, and support MDI/MDI-X connection Fiber Port:1000BaseF(X) ports (SC/ST optional, SFP optional) LED Indicators:PWR,L/A,SPD, PoE(option)
Power Requirement	Input Voltage:110/220 VAC (85～264 VAC) Input Current:0.25A（@110VAC/VDC） Connection: 3 bits terminal block Overload Current Protection:Present
Physical Characteristics	Housing:IP30protection, Metal case Dimensions:320mm*205mm*45mm (12.6 x 8.1 x 1.8 in) Weight:1900g Installation: Desktop, Wall mounting
Environmental Limits	Operating Temperature:-20～60 ℃（- 4～140 °F） Storage Temperature:-40～85 ℃（- 40～185 °F） Ambient Relative Humidity:5～95% (non-condensing)
Standards	E M I : FCC Part 15, CISPR (EN55022) class A, EN50155 (EN50121-3-2, EN55011, EN50121-4) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8, EN61000-4-9, EN61000-4-11,IEEE 1613 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6 MTBF （mean time between failures）：305,000 hrs IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseTX and 100BaseFX IEEE 802.3ab for 1000BaseT（X） IEEE 802.3z for 1000BaseX IEEE 802.3x for flow control, back pressure flow control
Warranty	5 years

CS118A Series

18-port Ethernet Switches

▸ Up to 2 GE RJ45 ports and 16 FE fiber ports
▸ Broadcast storm protection
▸ Transparent transmission of VLAN tagged packets
▸ Broadcast storm protection
▸ Support store and forward transmission
▸ Support back pressure flow control
▸ No fan, low consumption, EMC-4 grade design
▸ All port anti-lighting (6KV)
▸ 3KV isolation protection
▸ IP30 protection, metal shell
▸ PoE/PoE+ option

Overview:

CS118A Series is an 18-port Ethernet switches that is ideal to update network or built a new network. Up to 16 fiber ports can help improve the infrastructure of your network control center. No fan, low consumption and industrial grade design. More steadily work capability.

CS118A Series is rated to operate at temperatures ranging from -20 to 60°C, and undergoes a 100% burn-in test to ensure that they fulfill a reliable running.

Dimensions:

Size:（mm）

side view
Back view
Top view
Front view
441.00
206.00
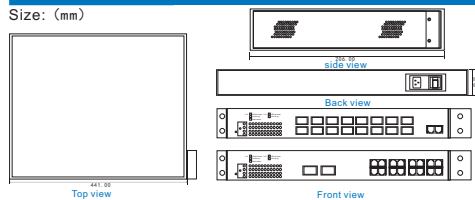
Order information:

Model No	Description	
	10/100BaseT(X)	1000BaseF(X) or SFP
WT-CS-10216_G	16	2
	10/100/1000BaseT(X)	100BaseF（X）or SFP
WT-CS-11602_G	2	16

Specifications:

Switch Properties	MAC Table size:4K Packet Buffer Size:2.75 Mbit Processing Type:Store and Forward Flow Control: IEEE 802.3x flow control, back pressure flow control
Interface	Rj45 Port:10/100/1000BaseT(X) auto connection, Full/Half duplex or force work mode, and support MDI/MDI-X connection Fiber Port:1000BaseF(X) ports (SC/ST optional, SFP optional) LED Indicators:PWR,L/A,SPD, PoE(option)
Power Requirement	Input Voltage:110/220 VAC (85 ~ 264 VAC) Input Current:0.25A （@110VAC/VDC) Connection: 3 bits terminal block Overload Current Protection：Present
Physical Characteristics	Housing:IP30protection, Metal case Dimensions:441mm*206mm*45mm (17.36 x 8.11 x 1.77 in) Weight:2400g Installation:19" 1U rack
Environmental Limits	Operating Temperature:-20 ~ 60 ℃ (- 4 ~ 140 °F) Storage Temperature:-40 ~ 85 ℃ (- 40 ~ 185 °F) Ambient Relative Humidity:5 ~ 95% (non-condensing)
Standards	E M I : FCC Part 15, CISPR (EN55022) class A, EN50155 (EN50121-3-2, EN55011, EN50121-4) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8, EN61000-4-9, EN61000-4-11,IEEE 1613 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6 MTBF （mean time between failures）:305,000 hrs IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseTX and 100BaseFX IEEE 802.3ab for 1000BaseT(X) IEEE 802.3z for 1000BaseX IEEE 802.3x for flow control, back pressure flow control
Warranty	5 years

CS126A Series

26-port 24+2G Combo Ethernet Switches

▸ Up to 24 FE RJ45 ports and 2 GE Combo port,SFP sockets
▸ Broadcast storm protection
▸ Transparent transmission of VLAN tagged packets
▸ Broadcast storm protection
▸ Support store and forward transmission
▸ Support back pressure flow control
▸ No fan, low consumption, EMC-4 grade design
▸ All port anti-lighting (6KV)
▸ 3KV isolation protection
▸ IP30 protection, metal shell
▸ PoE/PoE+ option

Overview:

CS126A Series is an 26-port Ethernet switches with 24x10/100Base-T(X) and 2xGigabit Combo ports, SFP socket. No fan, low consumption and industrial grade design. More steadily work capability.

CS126A Series is rated to operate at temperatures ranging from -20 to 60°C, and undergoes a 100% burn-in test to ensure that they fulfill a reliable running.

Dimensions:

Size:（mm）

Back view

Top view　　side view　　Front view
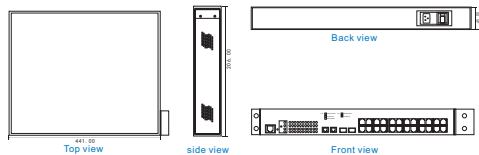
Order information:

Model No	Description	
	10/100/BaseT(X)	GE Combo port,SFP sockets
WT-CS-10224_G	24	2

Specifications:

Switch Properties	MAC Table size:4K Packet Buffer Size:2.75 Mbit Processing Type:Store and Forward Flow Control: IEEE 802.3x flow control, back pressure flow control
Interface	Rj45 Port:10/100BaseT(X) auto connection, Full/Half duplex or force work mode, and support MDI/MDI-X connection Fiber Port:1000BaseF(X) ports, Combo, SFP sockets LED Indicators:PWR,L/A,SPD,PoE (option)
Power Requirement	Input Voltage:110/220 VAC (85 ~ 264 VAC) Input Current:0.25A （@110VAC/VDC) Connection: 3 bits terminal block Overload Current Protection:Present
Physical Characteristics	Housing:IP30protection, Metal case Dimensions:441mm*206mm*45mm (17.36 x 8.11 x 1.77 in) Weight:2400g Installation:19" 1U rack
Environmental Limits	Operating Temperature:-20 ~ 60 ℃ (- 4 ~ 140 °F) Storage Temperature:-40 ~ 85 ℃ (- 40 ~ 185 °F) Ambient Relative Humidity:5 ~ 95% (non-condensing)
Standards	E M I : FCC Part 15, CISPR (EN55022) class A, EN50155 (EN50121-3-2, EN55011, EN50121-4) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8, EN61000-4-9, EN61000-4-11,IEEE 1613 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6 MTBF （mean time between failures）:305,000 hrs IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseTX and 100BaseFX IEEE 802.3ab for 1000BaseT(X) IEEE 802.3z for 1000BaseX IEEE 802.3x for flow control, back pressure flow control
Warranty	5 years

DS116M Series

16-port Full Gigabyte Managed Ethernet Switches

▶ Up to 12 GE RJ45 ports and 4 GE fiber ports
▶ Support ERPS, STP/RSTP/MSTP for network redundancy
▶ IGMP Snooping for filtering multicast traffic
▶ Port-based VLAN, IEEE 802.1Q VLAN, and GVRP to ease network planning
▶ Port Trunking for optimum bandwidth utilization
▶ RADIUS,TACACS+,SNMPv3,IEEE 802.1X,HTTPS and SSH to enhance network security
▶ QoS (IEEE 802.1p/CoS) and ToS/DiffServ to increase determinism
▶ SNMPv1/v2c/v3 for different levels of network management
▶ RMON for efficient network monitoring and proactive capability
▶ Support port mirroring
▶ Bandwidth management prevents unpredictable network status
▶ Lock port function for blocking unauthorized access based on MAC address Automatic alarm through e-mail, relay out
▶ User friendly UI and command command Line Interface (CLI) for quickly configuring major managed functions

▶ All port anti-lighting (6KV)   ▶ 3KV isolation protection
▶ IP30 protection, metal shell   ▶ PoE/PoE+ option

Overview:

The DS116M series is equipped with up to 12 Gigabit Ethernet ports and 4 fiber optic ports, making it ideal for upgrading an existing network to Gigabit speed or building a new full Gigabit backbone. Gigabit transmission increases bandwidth for higher performance and transfers large amounts of triple-play services across a network quickly. Redundant Ethernet ERPS, RSTP/STP, and MSTP increase system reliability and the availability of your network backbone.

The DS116M series is designed especially for communication demanding applications, such as video and process monitoring, ITS, and process automatic systems, all of which can benefit from a scalable backbone construction.

Dimensions:

Size:（mm）

Top view   side view   Front view

Back view
320.00
205.00
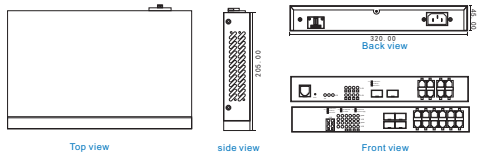
Order information:

Model No	Description	
	10/100/1000BaseT(X)	1000BaseF(X) or SFP
WT-DS-80412G	12	4
WT-DS-80208G	8	2

Specifications:

Protocols	IGMPv1/v2/v3, GMRP, GVRP, SNMPv1/v2c/v3,DHCP Server/Client, DHCP Option 66/67/82,BootP,TFTP, SNTP,SMTP, RARP, RMON, HTTP, HTTPS,Telnet, SSH, Syslog,EtherNet/IP, PROFINET,Modbus/TCP, SNMP Inform, LLDP,IEEE 1588 PTP V2, IPv6, NTP Server/Client
MIB	MIB-II, Ethernet-Like MIB, P-BRIDGE MIB,Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1, 2, 3, 9
Flow Control	IEEE 802.3x flow control, back pressure flow control
Switch Properties	Priority Queues: 4 IGMP Groups: 256 Jumbo Frame Size:9.6 KB Max. Number of Available VLANs: 64 MAC Table size:8K VLAN ID Range: VID 1 to 4094 Packet Buffer Size:4 Mbit
Interface	Fiber Ports：1000BaseF(X) or SFP slot Rj45 Ports: 10/100/1000BaseT(X) auto negotiation speed, and auto MDI/MDI-X connection Console port: RS-232（RJ45 connector） LED Indicators:PWR,L/A,SPD, PoE(option)
Power Requirement	Input Voltage:110/220 VAC (85 ~ 264 VAC) Input Current:0.25A（@110VAC/VDC) Connection: 3 bits terminal block Overload Current Protection:Present
Physical Characteristics	Housing:IP30protection, Metal case Dimensions:320mm*205mm*45mm (12.6 x 8.1 x 1.8 in) Weight:1900g Installation: Desktop, Wall mounting
Environmental Limits	Operating Temperature:-20 ~ 60 ℃ (- 4 ~ 140 °F) Storage Temperature:-40 ~ 85 ℃ (- 40 ~ 185 °F) Ambient Relative Humidity:5 ~ 95% (non-condensing)
Standards	EMI : FCC Part 15 Subpart B Class A, EN 61000-6-4(Industrial) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8, IEEE 1613 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6 MTBF （mean time between failures）:305,000 hrs IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX IEEE 802.3ab for 1000Base-T IEEE 802.z for 1000Base-X IEEE 802.1D for Spanning Tree Protocol IEEE 802.1w for Rapid Spanning Tree Protocol IEEE 802.1s for Multiple Spanning Tree Protocol IEEE 802.1Q for VLAN Tagging IEEE 802.1p for Class of Service IEEE 802.1X for Authentication IEEE 802.3ad for Port Trunk with LACP IEEE 802.3x for Flow Control
Warranty	5 years

CS118M Series

18-port Managed Ethernet Switches

- Up to 2 GE RJ45 ports and 16 FE fiber ports
- Support ERPS, STP/RSTP/MSTP for network redundancy
- IGMP Snooping for filtering multicast traffic
- Port-based VLAN, IEEE 802.1Q VLAN, and GVRP to ease network planning
- Port Trunking for optimum bandwidth utilization
- RADIUS,TACACS+,SNMPv3,IEEE 802.1X,HTTPS and SSH to enhance network security
- QoS (IEEE 802.1p/CoS) and ToS/DiffServ to increase determinism
- SNMPv1/v2c/v3 for different levels of network management
- RMON for efficient network monitoring and proactive capability
- Support port mirroring
- Bandwidth management prevents unpredictable network status
- Lock port function for blocking unauthorized access based on MAC address
- Automatic alarm through e-mail, relay out
- User friendly UI and command command Line Interface (CLI) for quickly configuring major managed functions
- All port anti-lighting (6KV)   ▸ 3KV isolation protection
- Ip30 protection, metal shell   ▸ PoE/PoE+ option

Overview:

CS118M Series is an 18-port Ethernet switches that is ideal to update network or built a new network. Up to 16 fiber ports can help improve the infrastructure of your network control center. No fan, low consumption and industrial grade design. More steadily work capability. Redundant Ethernet ERPS, RSTP/STP, and MSTP increase system reliability and the availability of your network backbone.

The CS118M series is rated to operate at temperatures ranging from -20 to 60°C, and undergoes a 100% burn-in test to ensure that they fulfill a reliable running.

Dimensions:

Size: (mm)

side view

Vertical view

Back view

Front view
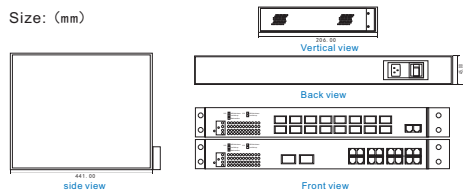
Order information:

Model No	Description	
	10/100BaseT(X)	1000BaseF(X) or SFP
WT-CS-80216_G	16	2
	10/100/1000BaseT(X)	100BaseF(X) or SFP
WT-CS-81602_G	2	16

Specifications:

Protocols	IGMPv1/v2/v3, GMRP, GVRP, SNMPv1/v2c/v3,DHCP Server/Client, DHCP Option 66/67/82,BootP,TFTP, SNTP,SMTP, RARP, RMON, HTTP, HTTPS,Telnet, SSH, Syslog,EtherNet/IP, PROFINET,Modbus/TCP, SNMP Inform, LLDP,IEEE 1588 PTP V2, IPv6, NTP Server/Client
MIB	MIB-II, Ethernet-Like MIB, P-BRIDGE MIB,Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1, 2, 3, 9
Flow Control	IEEE 802.3x flow control, back pressure flow control
Switch Properties	Priority Queues: 4 / Max. Number of Available VLANs: 64 / VLAN ID Range: VID 1 to 4094 / IGMP Groups: 256 / MAC Table size:4K / Packet Buffer Size:2.75 Mbit
Interface	Rj45 Port:10/100/1000BaseT(X) auto connection, Full/Half duplex or force work mode, and support MDI/MDI-X connection / Fiber Port:100BaseF(X) ports (SC/ST optional, SFP optional) / Console port:RS-232 (RJ45 connector) / LED Indicators:PWR,L/A,SPD, PoE(option)
Power Requirement	Input Voltage:110/220 VAC (85 ~ 264 VAC) / Input Current:0.25A （@110VAC/VDC) / Connection: 3 bits terminal block / Overload Current Protection:Present
Physical Characteristics	Housing:IP30protection, Metal case / Dimensions:441mm*206mm*45mm (17.36 x 8.11 x 1.77 in) Weight：2400g / Installation:19" 1U rack
Environmental Limits	Operating Temperature：-20 ~ 60 ℃ (- 4 ~ 140 °F) / Storage Temperature：-40 ~ 85 ℃ (- 40 ~ 185 °F) / Ambient Relative Humidity：5 ~ 95% (non-condensing)
Standards	EMI : / FCC Part 15 Subpart B Class A, EN 61000-6-4(Industrial) / EMS: / EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8, IEEE 1613 / Shock: IEC 60068-2-27 / Freefall: IEC 60068-2-32 / Vibration: IEC 60068-2-6 / MTBF （mean time between failures）:305,000 hrs / IEEE 802.3 for 10Base-T / IEEE 802.3u for 100Base-TX / IEEE 802.3ab for 1000Base-T / IEEE 802.z for 1000Base-X / IEEE 802.1D for Spanning Tree Protocol / IEEE 802.1w for Rapid Spanning Tree Protocol / IEEE 802.1s for Multiple Spanning Tree Protocol / IEEE 802.1Q for VLAN Tagging / IEEE 802.1p for Class of Service / IEEE 802.1X for Authentication / IEEE 802.3ad for Port Trunk with LACP / IEEE 802.3x for Flow Control
Warranty	5 years

Optical transceivers

SFP-T optical transceiver

CSFP optical transceiver

1×9 optical transceiver

Industrial 155M/1.25G optical transceiver

10G (SFP+/XFP) optical transceiver

Carrier-Class 155M/1.25G optical transceiver

Others

RS232/485/422 converters

RS-232/422/485 to optical fiber converters

PoE injector

Video converters

1-channel video converters

8-channel video converters

64-channel video converters

Media converters

FE/GE Media converters

10 GbE Media converters

Rack-mount chassis Media converters

Powered Device

PoE Extender

PoE Splitter

PoE Solutions

Data&Power

PoE switches

oE Injector

Data

UPS

Power

Ethernet switches

Core layer

Management software

Control center

Port Trunk

Aggregation layer

Access layer

CAT5e   Optic Fiber   Gigabit Optic Fiber