

MTX100 Series Industrial Switches



The MTX100 Series Industrial Switches have up to 8 10/100/1000M copper ports, which are ideal for applications that require simple industrial Ethernet connections. To provide greater versatility for use with applications from different industries, the MTX100 Series also allows users to enable or disable the Quality of Service (QoS) function, and broadcast storm protection (BSP) with DIP switches on the outer panel. In addition, the MTX100 Series has a rugged metal housing to ensure suitability for use in industrial environments and fiber connections (SFP, SC or ST) can also be selected.

The MTX100 Series has a 12/24/48 VDC & 24VAC single power input, DIN-rail mounting, and high-level EMI/EMC capability. In addition to its compact size, the MTX100 Series has passed a 100% burn-in test to ensure it will function reliably after it has been deployed.

Features and Benefits

- Industrial-grade Chip
- 10/100/1000 BaseT(X)(RJ45 connector)
- Compact size for easy installation
- QoS supported to process critical data in heavy traffic
- Die-casting aluminum alloy housing
- IP30 protection class
- -40 to 75°C wide operating temperature range

Specifications

Switch Properties	
Backplane Bandwidth:	16Gbps (Max.)
Processing Type:	Store-and-Forward
MAC Table Size:	4K (Max)
Packet Buffer Size:	1.5 Mbits
Exchange Rate:	148,800 pps/100M ports; 1,488,000 pps/1000M ports

DIP Switch Configuration	
Ethernet Interface	Quality of Service (QoS), Broadcast Storm Protection (BSP)

Power Parameters	
Connection:	1 removable 2-contact terminal block
Input Voltage:	12/24/48 VDC & 24 VAC
Operating Voltage:	9.6~60VDC & 18~30VAC
Overload Current Protection:	Supported
Reverse Polarity Protection:	Supported
Power Consumption:	≤6W

Physical Performance	
Installation:	DIN-rail mounting
Housing:	Die-casting aluminum alloy housing
IP Rating:	IP30
Dimensions (W x H x D):	MTX100-A3K/A5K: 24mm × 100mm × 61.8mm (±0.3) MTX100-A7K/A8K: 40mm × 100mm × 61.8mm (±0.3)
Weight:	≤0.7KG
MTBF:	≥400,000H

Environment Limits	
Storage Temperature:	-40°C ~ +85°C
Operating Temperature:	-40°C ~ +75°C
Ambient Relative Humidity:	5% ~ 95% (non-condensing)

Mechanical Characteristics	
Vibration:	IEC 60068-2-6
Shock:	IEC 60068-2-27
Freefall:	IEC 60068-2-31
Circuit Board:	Conforming to IPC Standard

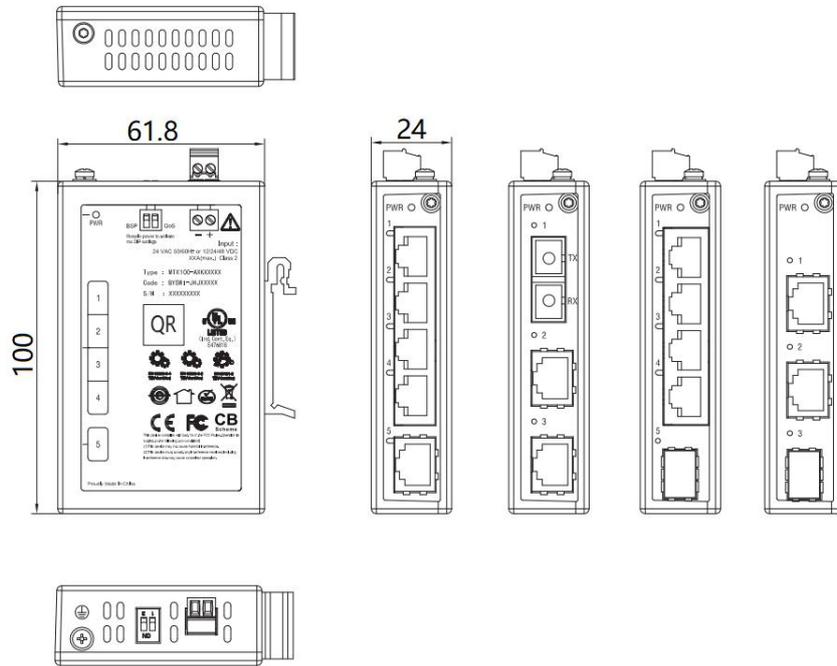
Electromagnetic Characteristics	
EMI:	FCC 47 CFR Part 15 Class A EN55032 Class A EN55035 Class A
EMS:	IEC (EN)61000-4-2, Class 3 IEC (EN)61000-4-3, Class 3 IEC (EN)61000-4-4, Class 3 IEC (EN)61000-4-5, Class 3 IEC (EN)61000-4-6, Class 3 IEC (EN)61000-4-8, Class 5 IEC (EN)61000-4-18, Class 3

Industrial Certification and Testing	
Product Safety:	IEC/EN62368-1 UL/cUL61010
EMC:	EN55024 EN55032 EN61000-3-3 EN61000-3-3 EN61000-6-2 EN61000-6-4 FCC Part 15 Subpart B Class A

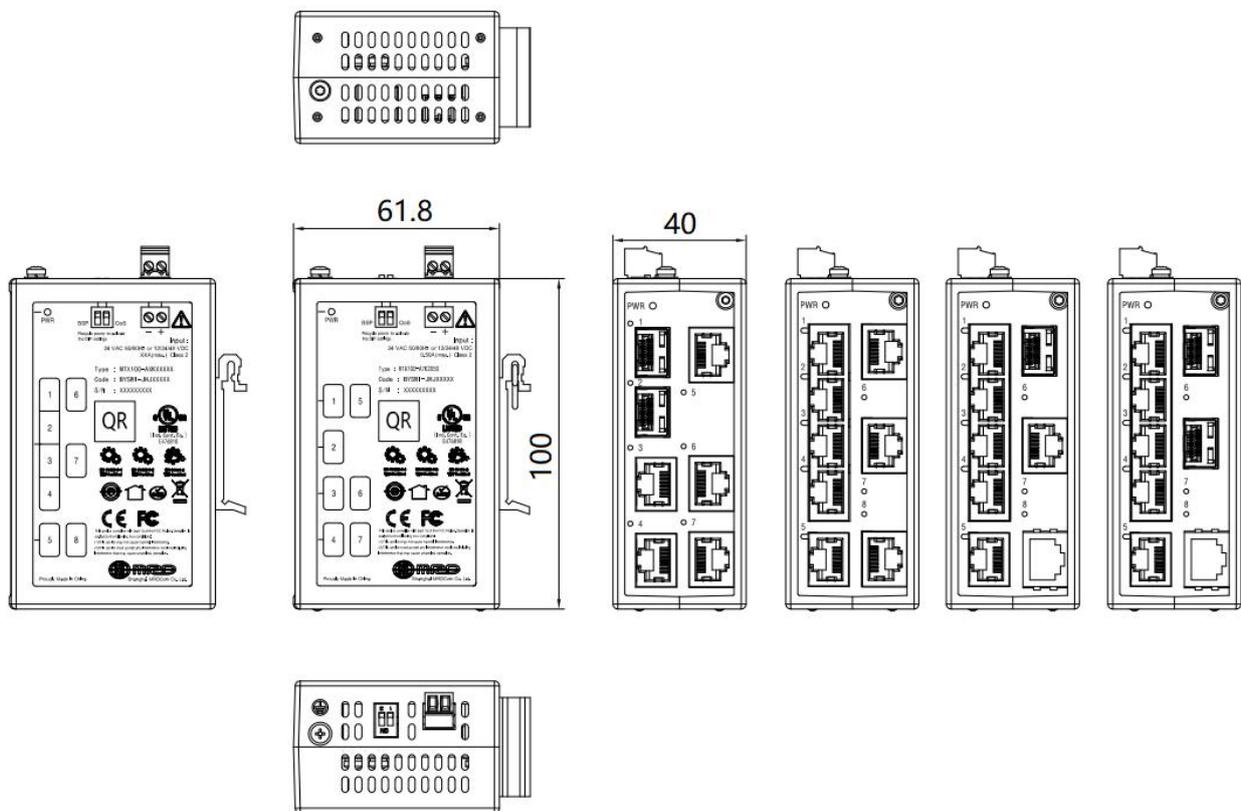
Dimensions

Unit: mm

MTX100-A3K/A5K



MTX100-A7K/A8K



Ordering Information

P/N	Description
MTX100-A8K0080	MTX100 Series 8-port Unmanaged Industrial Switch made from Anti-Corrosion Aluminum Alloy. 8 10/100/1000BaseT Ports. IP30 Protection Class, Operating Temperature from -40°C to +75°C. 12/24/48 VDC (9.6~60VDC) & 24VAC (18~30 VAC) Power Input (Only connect to class 2 power supply).
MTX100-A8K0206	MTX100 Series 8-port Unmanaged Industrial Switch made from Anti-Corrosion Aluminum Alloy. 2 100BaseX SFP Port, (SFP module not included), and 6 10/100BaseT Ports. IP30 Protection Class, Operating Temperature from -40°C to +75°C. 12/24/48 VDC (9.6~60VDC) & 24VAC (18~30 VAC) Power Input (Only connect to class 2 power supply).
MTX100-A8K0107	MTX100 Series 8-port Unmanaged Industrial Switch made from Anti-Corrosion Aluminum Alloy. 1 100BaseX SFP Port, (SFP module not included), and 7 10/100BaseT Ports. IP30 Protection Class, Operating Temperature from -40°C to +75°C. 12/24/48 VDC (9.6~60VDC) & 24VAC (18~30 VAC) Power Input (Only connect to class 2 power supply).
MTX100-A8K0008	MTX100 Series 8-port Unmanaged Industrial Switch made from Anti-Corrosion Aluminum Alloy. 8 10/100BaseT Ports. IP30 Protection Class, Operating Temperature from -40°C to +75°C. 12/24/48 VDC (9.6~60VDC) & 24VAC (18~30 VAC) Power Input (Only connect to class 2 power supply).
MTX100-A7K2050	MTX100 Series 7-port Unmanaged Industrial Switch made from Anti-Corrosion Aluminum Alloy. 2 100/1000BaseX SFP Port, (SFP module not included), and 7 10/100/1000BaseT Ports. IP30 Protection Class, Operating Temperature from -40°C to +75°C. 12/24/48 VDC (9.6~60VDC) & 24VAC (18~30 VAC) Power Input (Only connect to class 2 power supply).
MTX100-A5K1040	MTX100 Series 5-port Unmanaged Industrial Switch made from Anti-Corrosion Aluminum Alloy. 1 100/1000BaseX SFP Port, (SFP module not included), and 4 10/100/1000BaseT Ports. IP30 Protection Class, Operating Temperature from -40°C to +75°C. 12/24/48 VDC (9.6~60VDC) & 24VAC (18~30 VAC) Power Input (Only connect to class 2 power supply).

Ordering Information

P/N	Description
MTX100-A5K0050	MTX100 Series 5-port Unmanaged Industrial Switch made from Anti-Corrosion Aluminum Alloy. 5 10/100/1000BaseT Ports. IP30 Protection Class, Operating Temperature from -40°C to +75°C. 12/24/48 VDC (9.6~60VDC) & 24VAC (18~30 VAC) Power Input (Only connect to class 2 power supply).
MTX100-A5K0104	MTX100 Series 5-port Unmanaged Industrial Switch made from Anti-Corrosion Aluminum Alloy. 1 100BaseX SFP Port, (SFP module not included), and 4 10/100BaseT Ports. IP30 Protection Class, Operating Temperature from -40°C to +75°C. 12/24/48 VDC (9.6~ 60 VDC) & 24 VAC (18~30 VAC) Power Input (Only connect to class 2 power supply).
MTX100-A5K0005	MTX100 5-port Unmanaged Industrial Switch made from Anti-Corrosion Aluminum Alloy. 5 10/100BaseT Ports. IP30 Protection Class, Operating Temperature from -40°C to +75°C. 12/24/48 VDC (9.6~60VDC) & 24VAC (18~30 VAC) Power Input (Only connect to class 2 power supply).
MTX100-A3K1020	MTX100 3-port Unmanaged Industrial Ethernet Media Converter made from Anti-Corrosion Aluminum Alloy. 1 100/1000BaseX SFP Port, (SFP module not included), and 2 10/100/1000BaseT Ports. IP30 Protection Class, Operating Temperature from -40°C to +75°C. 12/24/48 VDC (9.6~60VDC) & 24VAC (18~30 VAC) Power Input (Only connect to class 2 power supply).

Ordering Information

P/N	Description
MTX100-A3K0102-S-SC	MTX100 3-port Unmanaged Industrial Ethernet Media Converter made from Anti-Corrosion Aluminum Alloy. 1 Fixed Fiber Port (Single Mode, 40KM, SC), and 2 10/100BaseT Ports. IP30 Protection Class, Operating Temperature from -40°C to +75°C. 12/24/48 VDC (9.6~60VDC) & 24VAC (18~30 VAC) Power Input (Only connect to class 2 power supply).
MTX100-A3K0102-M-ST	MTX100 3-port Unmanaged Industrial Ethernet Media Converter made from Anti-Corrosion Aluminum Alloy. 1 Fixed Fiber Port (Multi-Mode, 5KM, ST), and 2 10/100BaseT Ports. IP30 Protection Class, Operating Temperature from -40°C to +75°C. 12/24/48 VDC (9.6~60VDC) & 24VAC (18~30 VAC) Power Input (Only connect to class 2 power supply).
MTX100-A3K0102-M-SC	MTX100 3-port Unmanaged Industrial Ethernet Media Converter made from Anti-Corrosion Aluminum Alloy. 1 Fixed Fiber Port (Multi-Mode, 5KM, SC), and 2 10/100BaseT Ports. IP30 Protection Class, Operating Temperature from -40°C to +75°C. 12/24/48 VDC (9.6~60VDC) & 24VAC (18~30 VAC) Power Input (Only connect to class 2 power supply).