

Introduction _

The MQ-7251M is an Ethernet I/O device equipped with 16-channel DI, as well as the MQTT protocol is supported for connecting with a variety of digital sensors in Industrial Internet of Things (IIoT) applications. A friendly web-based user interface is provided for users to configure module, access the network connection status and I/O status via a normal web browser on a mobile device or computer.

The MQ-7251M features optical isolation for 2500 VDC of transient overvoltage protection, but doesn't not provide channel-to-channel isolation. It can safely be used in applications where hazardous voltages are present.

System Specifications -

Model	MQ-7251M
Software	
Built-in Web Server	Yes
Web HMI	Yes
Communication	
Ethernet Port	2 x RJ-45, 10/100 Base-TX, Switch Ports
Protocol	MQTT 3.1.1
Dual Watchdog	Yes, Module (0.8 seconds), Communication (Configurable)
PoE	-
LED Indicators	
for System Running	Yes
for Ethernet Link/Act	Yes
for DI/DO status	Yes
2-Way Isolation	
Ethernet	1500 VDC
I/O	2500 VDC
EMS Protection	
ESD (IEC 61000-4-2)	\pm 4 kV Contact for Each Terminal and \pm 8 kV Air for Random Point
EFT (IEC 61000-4-4)	±4 kV for Power Line
Power	
Reverse Polarity Protection	Yes
Powered from Terminal Block	+12 ~ +48 VDC
Consumption	2.9 W
Mechanical	
Dimensions (L x W x H)	120 mm x 97 mm x 42 mm
Housing	Metal
Installation	Wall Mounting
Environment	
Operating Temperature	-25 ~ +75°C
Storage Temperature	-30 ~ +80°C
Humidity	10 ~ 90% RH, Non-condensing

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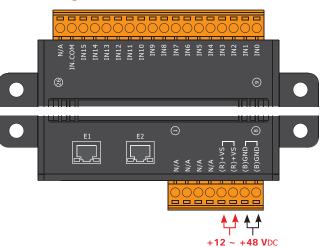


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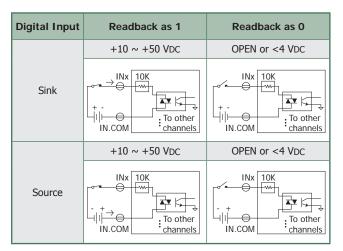
I/O Specifications —

Model	MQ-7251M	
Digital Input		
Channels	16	
Contact	Wet	
Sink/Source (NPN/PNP)	Sink/Source	
ON Voltage Level	+10 VDC ~ +50 VDC	
OFF Voltage Level	+4 VDC Max.	
Input Impedance	10 kΩ	
Overvoltage Protection	+70 VDC	

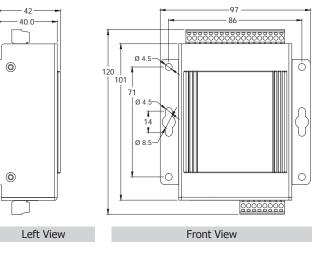
Pin Assignments .



Wire Connections -



Dimensions (Units: mm) -



Ordering Information -

MQ-7251M CR

MQTT I/O Module with 2-port Ethernet Switch, with 16-ch DI (RoHS)

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