

#### 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.

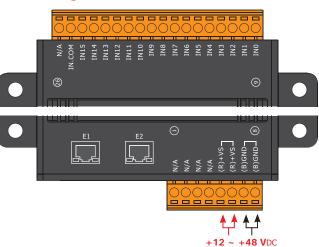
#### System Specifications -

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	

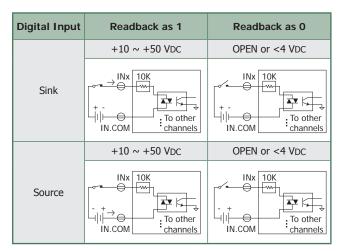
### I/O Specifications \_\_\_\_\_

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	

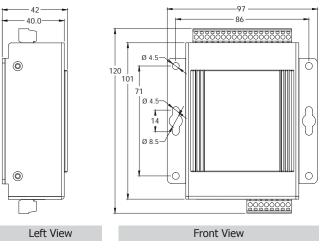
### Pin Assignments \_\_



#### Wire Connections \_



# Dimensions (Units: mm) \_



## Ordering Information \_\_\_\_\_

MQ-7251M CR

MQTT I/O Module with 2-port Ethernet Switch, with 16-ch DI  $% \left( \text{RoHS}\right)$  (RoHS)