

#### Introduction .

The MQ-7255M is an Ethernet I/O device equipped with 8-channel DI and 8-channel DO, as well as the MQTT protocol is supported for connecting with a variety of digital sensors in Industrial Internet of Things (IIoT) applications. A web-based user interface is provided to configure module, monitor the network connection status and I/O status, and control digital output channels on the module via a normal web browser on a mobile device or computer.

The MQ-7255M features optical isolation for 2500 VDC of transient overvoltage protection, but doesn't provide channel-to-channel isolation. Each output channel can drive up to 650 mA load, together with configurable power-on value and safe value. It can safely be used in applications where hazardous voltages are present.

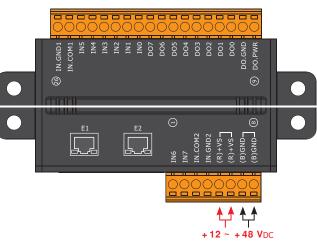
#### System Specifications

Model	MQ-7255M			
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 I solation				
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)	±2 kV for Power Line			
Surge (IEC 61000-4-5)	±2 kV for Power Line			
Power				
Reverse Polarity Protection	Yes			
Powered from Terminal Block	+12 ~ +48 VDC			
Consumption	3.9 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			

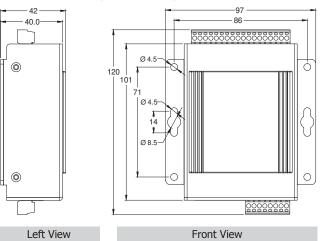
# I/ O Specifications \_\_\_\_\_

Model		MQ-7255M	
Digital	Input		
Channels		8	
Contact		Dry, Wet	
Sink/Source (NPN/PNP)		Dry: Source Wet: Sink, Source	
Wet	ON Voltage Level	+10 VDC ~ +50 VDC	
Contact	OFF Voltage Level	+4 VDC Max.	
Dry Contact	ON Voltage Level	Close to GND	
	OFF Voltage Level	Open	
Input Impedance		10 kΩ	
Overvolt	age Protection	+70 VDC	
Effective Distance		500 M Max.	
Digital Output			
Channels		8	
Туре		Isolated Open Collector	
Sink/Source (NPN/PNP)		Source	
Max. Load Current		650 mA/channel at 25°C	
Load Voltage		+10 VDC~ +40 VDC	
Overvoltage Protection		47 VDC	
Overload Protection		-	
Short-circuit Protection		Yes	
Power-on Value		Yes, Configurable	
Safe Value		Yes, Configurable	

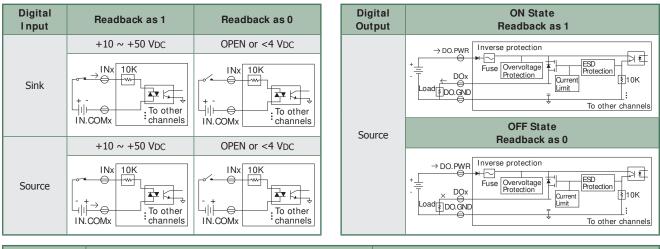
# Pin Assignments \_\_\_\_\_



Dimensions (Units: mm) .



### Wire Connections



Digital I nput	ON State Readback as 1	OFF State Readback as 0
Dry Contact	↑ Relay Close	X Relay Open

# Ordering Information

MQ-7255M CR

M CR MQTT I/O Module with 2-port Ethernet Switch, with 8-ch DI and 8-ch DO (RoHS)