

### 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 V<sub>DC</sub> 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			
Software Built-in Web Server	Vec		
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)	±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			
Humidity			

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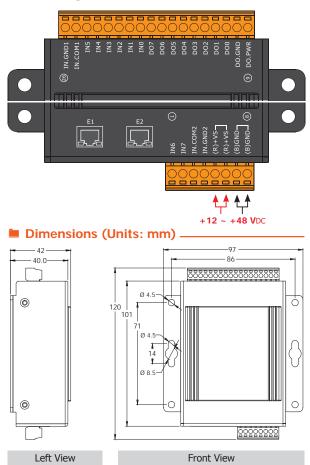


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Model		MQ-7255M
Digital I	Input	
Channels		8
Contact		Dry, Wet
Sink/Source (NPN/PNP)		Dry: Source Wet: Sink, Source
Wet Contact	ON Voltage Level	+10 VDC ~ +50 VDC
	OFF Voltage Level	+4 VDC Max.
Dry Contact	ON Voltage Level	Close to GND
	OFF Voltage Level	Open
Input Impedance		10 kΩ
Overvoltage 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

## I/O Specifications \_

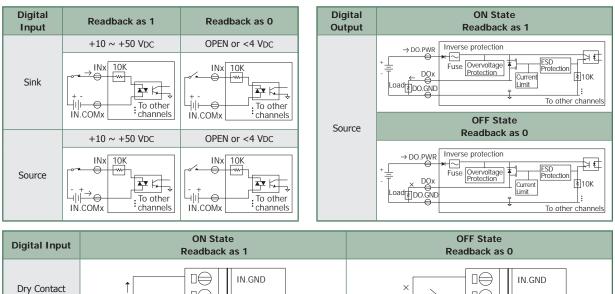




Relay Open

INx

# Wire Connections -



## Ordering Information .

MQ-7255M CR

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

Relay Close

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