



MQ-7255M
MQTT I/O Module with 8-ch DI, 8-ch DO

□ Features
■ Built-in Web Server
■ Web HMI
Support for MQTT Protocol
Support Modbus TCP Protocol
■ 2-port Ethernet Switch for Daisy-Chain Topology
■ Dual Watchdog
■ Built-in I/O
□ DI: 8 Channels
□ DO: 8 Channels
CE FC Kohs

■ Introduction

The MQ-7255M is an Ethernet I/O device equipped with 8-channel DI and 8-channel DO, as well as the MQTT and Modbus TCP protocols are 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

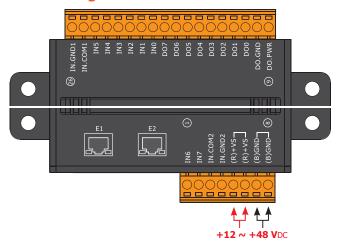
Model	MQ-7255M
CPU Module	
Watchdog Timer	Yes, Module (0.8 second), Communication (Programmable)
EMS Protection	
EFT (IEC 61000-4-4)	±2 kV for Power Line
ESD (IEC 61000-4-2)	±4 kV Contact for Each Terminal and ±8 kV Air for Random Point
Surge (IEC 61000-4-5)	±2 kV for Power Line
Software	
Built-in Web Server	Yes
Ethernet	
Ports	2 x RJ-45, 10/100 Base-TX, Swtich Ports
Protocol	MQTT 3.1.1 Modbus/TCP, Modbus/UDP
Isolation	1500 VDC
Power	
Reverse Polarity Protection	Yes
Consumption	3.9 W Max.
Powered from Terminal Block	12 ~ 48 VDC
Mechanical	
Casing	Metal
Dimensions (mm)	120 mm x 97 mm x 42 mm (L x W x H)
Installation	DIN-Rail or Wall mounting
Environmental	
Operating Temperature	-25 ~ +75°C
Storage Temperature	-30 ∼ +80°C
Humidity	10 ~ 90% RH, Non-condensing

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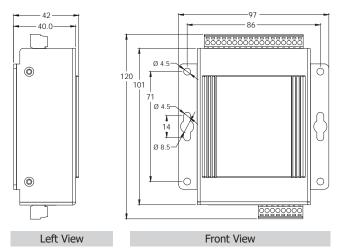
■ I/O Specifications

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

■ Pin Assignments

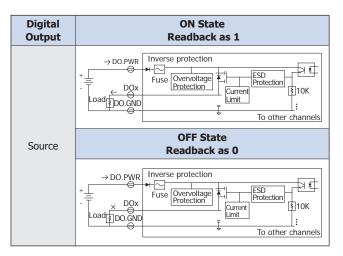


■ Dimensions (Units: mm)



■ Wire Connections

Digital Input	Readback as 1	Readback as 0
Sink	+10 ~ +50 VDC	OPEN or <4 VDC
	INX 10K To other channels	INX 10K To other IN.COMx To other
Source	+10 ~ +50 VDC	OPEN or <4 VDC
	INX 10K To other channels	INX 10K To other channels



Digital Input	ON State Readback as 1	OFF State Readback as 0
Dry Contact	Relay Close IN.GND INx	× Relay Open INX

Ordering Information

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

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