ICP DAS

MQ-7253M
MQTT I/O Module with 16-ch DI

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: 16 Channels

CE FC RoHS

Introduction

The MQ-7253M is an Ethernet I/O devices equipped with 16-channel DI, 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 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-7253M features optical isolation for 2500 VDC of transient overvoltage protection but do not provide channel-to-channel isolation. It can safely be used in applications where hazardous voltages are present.
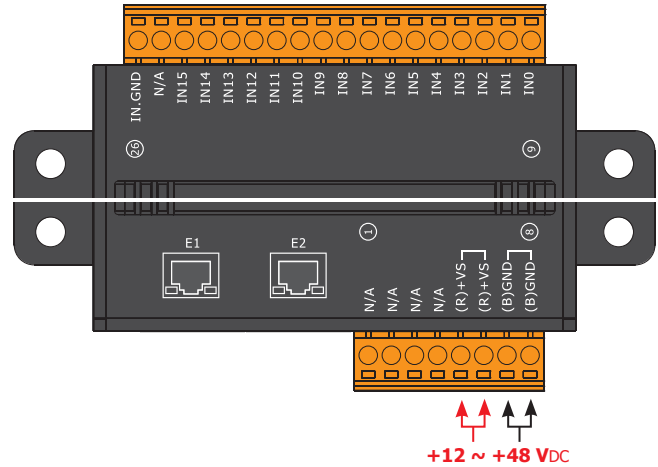
System Specifications

Model	MQ-7253M
CPU Module	
Watchdog Timer	Yes, Module (0.8 second), Communication (Programmable)
EMS Protection	
EFT (IEC 61000-4-4)	±4 kV for Power Line
ESD (IEC 61000-4-2)	±4 kV Contact for Each Terminal and ±8 kV Air for Random Point
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 V$_{DC}$
Power	
Reverse Polarity Protection	Yes
Consumption	3.7 W Max.
Powered from Terminal Block	12 ~ 48 V$_{DC}$
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

I/O Specifications

Model	MQ-7253M
Digital Input	
Channels	16
Type	Dry
Sink/Source (NPN/PNP)	Source
ON Voltage Level	Close to GND
OFF Voltage Level	Open
Effective Distance	500 M Max.

Pin Assignments

+12 ~ +48 V_{DC}

Wire Connections

Digital Input	ON State Readback as 1
Dry Contact	Relay Close — IN.GND / INx
	OFF State Readback as 0
	Relay Open — IN.GND / INx
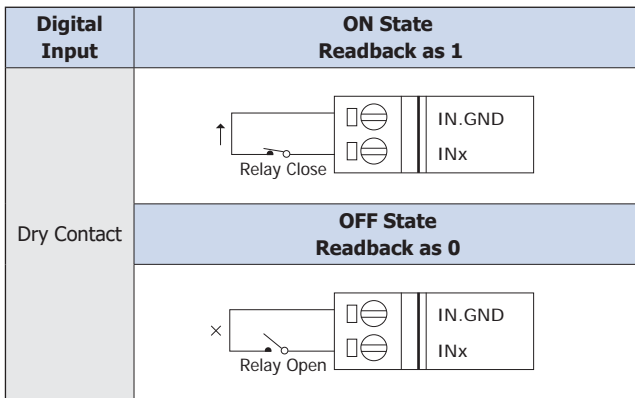
Dimensions (Units: mm)

Left View

Front View
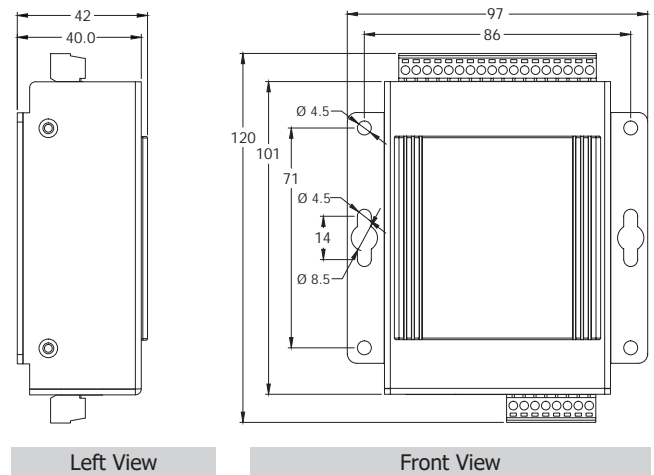
Ordering Information

MQ-7253M CR	MQTT I/O Module with 2-port Ethernet Switch, with 16-ch DI (RoHS)