Datasheet

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

Features

- Built-in Web Server
- Web HMI
- Support for MQTT Protocol
- 2-port Ethernet Switch for Daisy-Chain Topology
- Dual Watchdog
- Wide Operating Temperature Range: -25 ~ +75°C
- Built-in I/O
  - DI: 16 Channels

Introduction

The MQ-7253M 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-7253M features optical isolation for 2500 V_{DC} of transient overvoltage protection, but doesn't provide channel-to-channel isolation. It can safely be used in applications where hazardous voltages are present.
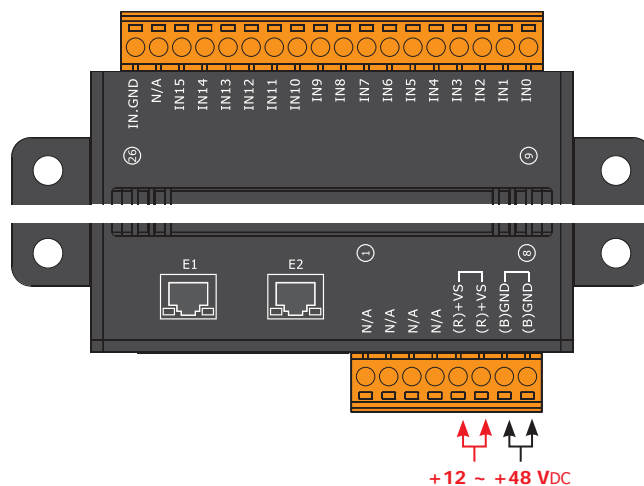
System Specifications

Model	MQ-7253M
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 V_{DC}
I/O	2500 V_{DC}
EMS Protection	
ESD (IEC 61000-4-2)	±4 kV Contact for Each Terminal and ±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 V_{DC}
Consumption	3.7 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

Datasheet

■ I/O Specifications

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

■ Pin Assignments

IN.GND N/A IN15 IN14 IN13 IN12 IN11 IN10 IN9 IN8 IN7 IN6 IN5 IN4 IN3 IN2 IN1 IN0

E1 E2

N/A N/A N/A N/A (R)+VS (R)+VS (B)GND (B)GND

+12 ~ +48 VDC

■ 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
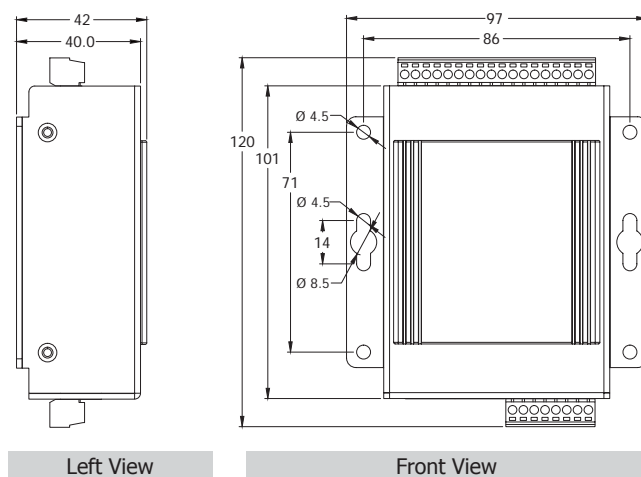
■ Ordering Information

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