



UA-7560M

OPC UA I/O Module with 6-ch DI, 6-ch Relay, and 2-port Ethernet Switch

■ Features

- Built-in Web Server to Provide the Web User Interface
- Built-in OPC UA Server
- Support MQTT Client Communication Protocol
- Built-in I/O Channels (6 x DI and 6 x Relay)
- 2-port Ethernet Switch for Daisy-Chain Topology
- IEEE 802.3af-compliant Power over Ethernet (PoE)







■ Introduction

UA-7560M is an OPC UA I/O module that provides 6 digital input channels and 6 digital output Relay channels. It has a built-in two-port Ethernet switch to implement daisy-chain topology. The cabling is much easier and total costs of cable and switch are significantly reduced. UA-7560M follows IEEE 802.3af compliant Power over Ethernet (PoE) specification. It allows receiving power from PoE enabled network by Ethernet pairs. This feature provides greater flexibility and efficiency to simplify system design, save space, and reduce wirings and power sockets.

UA I/O provides OPC UA server and MQTT client function in industrial networking communication. Users can choose the networking mode according to their needs and environment, to transmit the values of built-in I/O channels to the cloud IT system or field control system for reading and writing.

System Specifications

CPU Module				
CPU	32-bit CPU (400 MHz)			
Isolation				
Intra-module Isolation	2500 VDC			
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			
LED Indicators				
Status	1 x PoE Power 1 x System Running 1 x Ethernet Link/Act 16 x I/O Channel Status			
Ethernet				
Ports	RJ-45 x 2, 10/100 Base-TX, Swtich Ports (LED indicators)			
PoE	Yes			
Power				
Reverse Polarity Protection	Yes			
Input Range	12 ~ 48 VDC			
Consumption	3.8 W			
Powered from PoE	Yes, IEEE 802.3af, Class 1			
Powered from Terminal Block	Yes, 12 ~ 48 VDC			
Mechanical				
Dimensions (mm)	97 x 120 x 42 (W x L x H)			
Installation	Wall Mounting			
Environmental				
Operating Temperature	-25 °C ~ +75 °C			
Storage Temperature	-30 °C ~ +80 °C			
Humidity	10 ~ 90% RH, non-condensing			

■ I/O Specifications

Digital Input/Counter			
Channels	6		
Туре	Wet Contact		
Sink/Source (NPN/PNP)	Sink/Source		
Wet Contact, ON Voltage Level	+10 VDC ~ +50 VDC		
Wet Contact, OFF Voltage Level	+4 VDC Max.		
Max. Counts	16-bit (65535)		
Frequency	50 Hz		
Min. Pulse Width	10 ms		
Input Impedance	10 kΩ		
Overvoltage Protection	+70 VDC		
Relay Output			
Relay Output	6		
Туре	Power Relay, Form A (SPST N.O.)		
Contact Rating	5 A @ 250 VAC/24 VDC (Resistive Load)		
Operate Time	10 ms (max.)		
Release Time	5 ms (max.)		
Electrical Endurance	100,000 ops.		
Mechanical Endurance	20,000,000 ops.		

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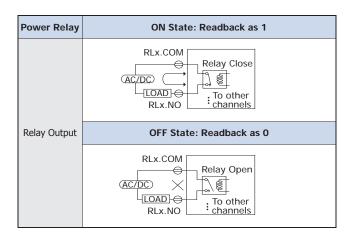
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■ Software Specifications

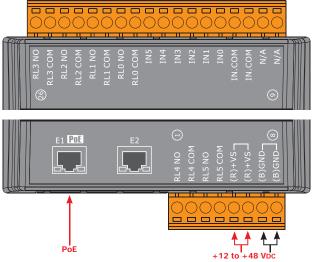
Protocol	
OPC UA Server	 OPC Unified Architecture: 1.02 Core Server Facet Data Access Server Facet Method Server Facet UA-TCP UA-SC UA Binary User Authentication: Username/Password X.509 Certificate Security Policy: None Basic128Rsa15 (Sign, Sign & Encrypt) Basic256 (Sign, Sign & Encrypt) Recommend to keep the maximum number of sessions within 3 connections.
MQTT Client	Connect to the MQTT Broker to read or control the I/O channel value by the publish/subscribe messaging mechanism. (MQTT Ver. 3.1.1; TLS Ver. 1.2)
Function	
Web Interface for Configuration	The system operation can be performed through the browser without installing software tools.

■ Wire Connections

Digital Input/ Counter	Readback as 1	Readback as 0
	+10 ~ +50 VDC	OPEN or <4 VDC
Sink	INX 10K To other channels	INX 10K To other in the channels
	+10 ~ +50 VDC	OPEN or <4 VDC
Source	INX 10K To other channels	INX 10K To other channels



Pin Assignments



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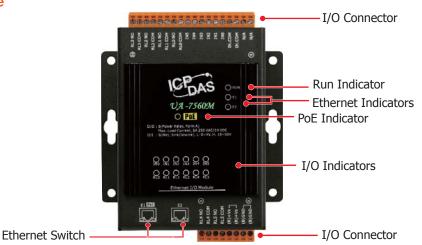
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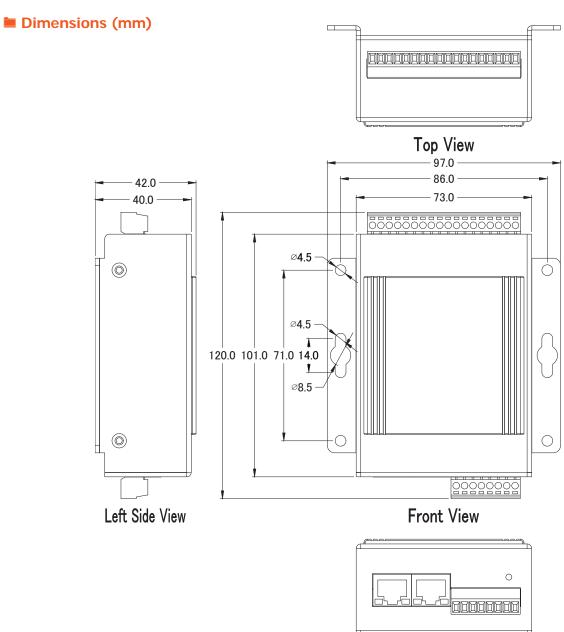
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Appearance





Ordering Information

UA-7560M CR

OPC UA I/O Module with 6-ch DI, 6-ch Relay, and 2-port Ethernet Switch. (RoHS)

Bottom View

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