DMU-3010

8-ch AI, 8-ch DI, 4-ch DO Ethernet I/O Module



Features

- Industrial Modbus/TCP protocol
- Mixed I/O in the Module
- Advantech Domain Focused Configuration Tool
- Remote maintenance through Ethernet
- Supports online device auto-scan or manual configure function
- Auto push data to specification target function
- Supports High/Low Alarm function
- Supports cable burn-out check
- Supports pulse/ accumulator input



Introduction

The DMU-3010 is an Ethernet I/O module that supports the Modbus TCP protocol, and delivers various onboard I/Os including analog input, digital input, and digital output, providing flexible options to satisfy versatile application requirements. It also features the powerful Advantech Domain Focused Configuration Tool for engineers to quickly develop their applications.

Specifications

General

Dimensions (W x H x D) 120 x 120 x 44 mm (4.72" x 4.72" x 1.73")

LAN 10/100Base-T
 Connector 1 x RJ-45 (LAN)

4 x Plug-in screw terminal block (I/O & Power)

 $\begin{array}{lll} \bullet & \textbf{Watchdog} & \textbf{System (1.6 sec)} \\ \bullet & \textbf{Supported Protocols} & \textbf{Modbus/TCP} \\ \bullet & \textbf{Power Input} & 10 \sim 30 \ V_{DC} \\ \bullet & \textbf{Power Consumption} & 3 \ W @ 24 \ V_{DC} \\ \end{array}$

Analog Input

• Channels 8

■ Input Type V, mA*1, RTD*2
■ Voltage Range 0 ~ 10 V
■ Current Range 0 ~ 20 mA, 4 ~ 20 mA

■ **RTD Type** Pt 100 (3-wire): -50 ~ 150°C

0 ~ 100°C 0 ~ 200°C 0 ~ 400°C -50 ~ 200°C

Pt 1000 (3-wire): -40 ~ 160°C IEC RTD 100 ohms (=0.0385) JIS RTD 100 ohms (=0.0392)

• Input Impedance $2 M\Omega$ (voltage)

■ **Accuracy** ±0.1%, (voltage); ±0.2% (current); ±0.5°C (RTD); or

Better

■ **Span Drift** ±25 ppm/°C
■ **Zero Drift** ±6 μV/°C
■ **Resolution** 16-bit

Sampling Rate
 10 samples/second

CMR @ 50/60 Hz 90 dB
 NMR @ 50/60 Hz 60 dB
 Over Voltage Protection ±35 V_{DC}

Built-in TVS/ESD Protection

■ Isolation Protection 2500 V_D

Channels 0~7 support V, mA Channel 4~7 also support RTD input

Digital Input

• Channels 8

Dry Contact
 Logic level 0: Open

Logic level 1: Close to Ground

Supports 200 Hz pulse/accumulator input

Isolation Protection 2500 V_{DC}

Digital Output

• Channels 4

Open Collector to 30V 30mA max load.

Power Dissipation 300 mW for each channel
 PWM Period 20 ms ~ 3600 sec
 PWM Minimum Duty On 2 ms

PWM Minimum Duty On 2 ms
 Isolation Protection 2500 V_{DC}

Environment

■ **Humidity** 5 ~ 95% RH

Operation Temperature -40 ~ 70°C (-40 ~ 158°F)
 Storage Temperature -40 ~ 70°C (-40 ~ 158°F)

Ordering Information

DMU-3010-AE 8-ch Al,8-ch Dl,4-ch DO Ethernet IO Module