



TRI-IO 8848U

Tri-IO 8848U is rugged, high performance multi-protocols Input/Output controller to accommodate general and specific application, featuring BACnet MSTP/IP and Modbus RTU/TCP protocols.

Tri-IO 8848U can control and manage remote controlled devices in the fieldbus connection, to meet the general or specific application

Tri-IO 8848U can control and manage remote controlled devices in the fieldbus connection, to meet the general or specific application

Standard Communication protocols

with BACnet MSTP/IP and Modbus RTU/IP communication open protocols, which is able to accommodate most of the Building Automation application

Multiple Input/Output Types

- The controller comes with eight Digital Inputs, eight Analogue Inputs (current, voltage, resistance and temperature sensor), eight Digital Outputs (Relay), and four Analogue Output (current and voltage)

High Accuracy Analog Channels

- 12-bits A/D converter with programmable gain amplifier yields a high resolution and accuracy reading on analogue input points.
- 12-bits D/A converter provides more accurate analogue output control

Online Firmware Upgrade/Configuration

- The controller firmware can be upgraded and configured via RS-485 or TCP/IP.

Robust System Operation

- The controller has a built-in high accuracy Real Time Clock with backup battery.
- Software and hardware watchdog timer are provided for high reliability operation.

Energy And Device Management Function Module

- Comes with specific function modules for energy and device management

General and Specific Function Module

- Built-in general and application specific function modules.



+603-87419885

www.sdc.my

SPECIFICATION

ELECTRICAL

- **Power:** 24VAC +5%/-15% or 20VDC ~ 34VDC
- **Consumption:** <11VA
- **Operation Temperature:** 0°C to 55°C (32°F to 131°F)
- **Storage Temperature:** -20°C to 85°C (-4F to 185°F)
- **Operation Humidity:** 0% to 95% Relative Humidity, Non-condensing
- **Battery:** Panasonic CR1220 Lithium Coin Battery

COMMUNICATION

- **Part 1:** EIA-485 Standard Two Wire, Half Duplex, 1/8 Load
- **Baudrate:** 9.6k, 19.2k, 38.4k, 76.8k, 115.2k bit/s
- **Data Bit:** 0°C to 55°C (32°F to 131°F)
- **Parity:** -20°C to 85°C (-4F to 185°F)
- **Protocol:** 0% to 95% Relative Humidity, Non-condensing
- **Part 2:** Panasonic CR1220 Lithium Coin Battery
- **Protocol:** Bacnet IP, Modbus TCP

INPUT/OUTPUT

- **Digital Input:** 8 Channels
- **Type:** Dry Contact, Non-isolated;
- **Limit:** ON State < 2000 Ω, OFF State > 20,000 Ω
- **Digital Output:** 8 Channels
- **Type:** Relay, SPST NO, 24VAC/DC, 1A
- **Analogue Output:** 8 Channels, 12-bits with PGA
- **Voltage** 0 – 10V (±0.01V), 0 – 5V (±0.01V)
- **Current** 4 – 20mA (±0.01mA), 0 – 20mA (±0.01mA)
- **Resistance** 0 – 30k (±10 Ohm), 0 – 10k (±5 Ohm), 0 – 15k (±1 Ohm)
- **Thermistor Sensor:** NTC: 10k Type 2/3, 3k, 20k (±0.1°C)
RTD: 1k Balco, 1k Platinum (±0.2°C)
- **Analogue Output:** 4 Channels, 12-bits
- **Type:** Current: 0 – 20mA, 4 – 20mA (Max load resistance, 800 Ω)
Voltage: 0 – 10V

OTHERS

- **CPU:** ARM Cortex 32-bit, 80Mhz
- **Size:** 198mmL x 122mmW x 41mmH
- **Casting Materials:** UL94 ABS
- **Weight:** 410±5g