

# ADAM-4053 ADAM-4055 ADAM-4080



www.coastipc.com | 866-412-6278 | info@coastipc.com

## 16-ch Digital Input Module

## 16-ch Isolated Digital I/O Module with Modbus

## 2-ch Counter/Frequency Module



ADAM-4053



ADAM-4055



ADAM-4080



### Specifications

#### General

- **Connectors** 2 x plug-in terminal blocks (#14 ~ 22 AWG)
- **Power Consumption** 1 W @ 24 V<sub>DC</sub>
- **Watchdog Timer** System (1.6 second)
- **Supported Protocols** ASCII command

#### Digital Input

- **Channels** 16
- **Input Level**  
Dry contact: Logic level 0: close to GND  
Logic level 1: open  
Wet contact: Logic level 0: 2 V max.  
Logic level 1: 4 ~ 30 V
- **Effective Distance** 500 m max. (dry contact only)

### Specifications

#### General

- **Connectors** 2 x plug-in terminal blocks (#14 ~ 28 AWG)
- **Power Consumption** 1 W @ 24 V<sub>DC</sub>
- **Watchdog Timer** System (1.6 second) & Communication
- **Supported Protocols** ASCII command and Modbus/RTU

- **Isolation Voltage** 2,500 V<sub>DC</sub>
- **LED Indicators** Yes

#### Digital Input

- **Channels** 8
- **Input Level**  
Dry Contact: Logic level 0: open  
Logic level 1: close to GND  
Wet Contact: Logic level 0: 3 V max.  
Logic level 1: 10 ~ 50 V
- **Overvoltage Protection** 70 V<sub>DC</sub>

#### Digital Output

- **Channels** 8, open collector to 40 V (200 mA max. load)
- **Power Dissipation** Channel: 1 W max.  
Total: 2.2 W (8 Channels)

### Specifications

#### General

- **Connectors** 2 x plug-in terminal blocks (#14 ~ 22 AWG)
- **Power Consumption** 2.0 W @ 24 V<sub>DC</sub>
- **Watchdog Timer** System (1.6 second)
- **Supported Protocols** ASCII command
- **LED Indicators** 5-digit readout, Ch 0 or Ch 1 (programmable)

#### Counter Input

- **Channels** 2 independent counters (32-bit + 1-bit overflow)
- **Input Frequency** 50 kHz max.
- **Input Pulse Width** >10 μs.
- **Input Mode** Isolated or non-isolated
- **Isolated Input Level** Logic level 0: 1 V max.  
Logic level 1: 3.5~30 V
- **Isolation Voltage** 2,500 V<sub>RMS</sub>
- **Non-isolated Input Level** Programmable threshold:  
Logic level 0: 0.8 V<sub>max</sub>.  
Logic level 1: 2.4 ~ 5.0 V
- **Maximum Count** 4,294,967,295 (32 bits)
- **Preset Type** Absolute or relative
- **Programmable Digital Noise Filter** 2 μs ~ 65 ms
- **Alarm** Alarm comparators on each counter
- **Frequency Measurement Range** 5 Hz ~ 50 kHz
- **Programmable Built-in Gate Time** 1 or 0.1 second

#### Digital Output

- **Channels** 2, open collector to 30 V, 30 mA max. load
- **Power Dissipation** 300 mW for each channel

### Common Specifications

#### General

- **Power Input** Unregulated 10 ~ 30 V<sub>DC</sub>

#### Environment

- **Humidity** 5 ~ 95% RH
- **Operating Temperature** -10 ~ 70°C (14 ~ 158°F)
- **Storage Temperature** -25 ~ 85°C (-13 ~ 185°F)

### Ordering Information

- **ADAM-4053** 16-ch Digital Input Module
- **ADAM-4055** 16-ch Isolated Digital I/O Module with Modbus
- **ADAM-4080** 2-ch Counter/Frequency Modules