

# ADAM-4080

## 2-ch Counter/Frequency, 2-ch Digital Output Module



### General

- **Certification:** CE, FCC
- **Connectors:** 2 x plug-in terminal blocks (#14 ~ 28 AWG)
- **Power Input:** Unregulated 10 ~ 30 VDC
- **Power Consumption:** 2 W @ 24 V DC
- **Watchdog Timer:** System (1.6 s) & Communication
- **Supported Protocols:** ASCII command and Modbus/RTU

### Environment

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

### Counter Input

- **Channels:** 2 independent counters
- **Input Frequency:** 50 kHz max.
- **Input Pulse Width:** >10  $\mu$ s.
- **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 VRMS
- **Non-isolated Input Level:**
  - **Logic level 0:** 0.8 Vmax.
  - **Logic level 1:** 2.4 ~ 5.0 V
- **Maximum Count:** 4,294,967,295 (32-bit + 1-bit overflow)
- **Preset Type:** Absolute or relative
- **Programmable Digital Noise Filter:** 2  $\mu$ s ~ 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
- **Type:** Open Collector
- **Load Voltage:** up to 30V
- **Max Load Current:** 30mA
- **Power Dissipation:** 300mW for each channel