

# iDAQ-938

## 8-slot USB 3.0 Industrial DAQ Chassis Module



### Features

- USB 3.0 SuperSpeed
- Wide range power input
- LED status indicators
- Physical ID switch for multiple module identification
- 8 iDAQ slots
- 2 programmable function pin for timing signal (trigger, clock) input/output

### Specifications

#### Analog Input

Please refer to the specifications of individual iDAQ analog input module

#### Analog Output

Please refer to the specifications of individual iDAQ analog input module

#### Digital Input

Please refer to the specifications of individual iDAQ analog input module

#### Digital Output

Please refer to the specifications of individual iDAQ analog input module

#### Counter

Please refer to the specifications of individual iDAQ analog input module

#### Programmable Function Pin

- **Channels** BNC x 2
- **Direction** Input or output, software configurable
- **Input level** Logic high: +3.5 V min.  
Logic low: +1.5 V max.
- **Input protection voltage** +6.5 V max, -0.5 V min.
- **Pull-down resistor** 10 k $\Omega$
- **Input signal frequency** 10 MHz max.
- **Response time** 20 ns max.
- **Debounce filter** 40 ns ~ 84 ms, software configurable
- **Output logic level** Logic high: +4.5 V min., 20 mA source max.  
Logic low: +0.5 V max., 20 mA sink max.

#### USB Communication

- **Interface** SuperSpeed USB 3.0
- **Data transfer rate** 5 Gbps max.
- **USB upstream port** 1 port

#### Power Requirement

- **Power Input** 10~30 V<sub>DC</sub>
- **Power Consumption** 28 W max., including modules and USB downstream port loads
- **Power consumption from USB** 100  $\mu$ A max.
- **Power connector** 2-pin spring terminal

#### Mechanical

- **Module dimensions** 280 x 100 x 71 mm (11 x 3.93 x 2.80 in.)
- **Weight** 1053 g
- **Installation** DIN Rail/Wall Mount

#### Environment

- **Operating temperature** -20 °C to 60 °C (-4 °F to 140 °F)
- **Storage temperature** -40 °C to 70 °C (-40 °F to 158 °F)
- **Operating humidity** Up to 90% RH, non-condensing
- **Vibration** 5G<sub>rms</sub>
- **Shock** 30G
- **Indoor use only**

#### Certification

- **EMC** CE, FCC

### Ordering Information

- **iDAQ-938-A** 8-slot USB 3.0 iDAQ Chassis Module

#### Optional Accessories

- **PCL-1010B-1E** BNC Coax Cable, 1m
- **PSD-A40W12** DIN Rail AC to DC 100-240V 40W 12V
- **PSD-A40W24** DIN Rail AC to DC 100-240V 40W 24V
- **iDAQ-901-AE** Dummy iDAQ Module

#### iDAQ Modules\*

- **iDAQ-731-AE** 16-ch IDI and 16-ch Universal IDO iDAQ Module
- **iDAQ-751-AE** 48-ch TTL DIO iDAQ Module
- **iDAQ-763D-AE** 16-ch SSR iDAQ Module
- **iDAQ-801-AE** 4-ch, 24-bit, 256kS/s/ch, DSA iDAQ Module
- **iDAQ-815-AE** 4-ch, 24-bit, 400S/s/ch, RTD iDAQ Module
- **iDAQ-817-AE** 8-ch, 16-bit, 200kS/s, Analog Input iDAQ Module
- **iDAQ-821-AE** 4-ch, 16-bit, 10kS/s/ch, Analog Output iDAQ Module
- **iDAQ-841-AE** 8-ch, 16-bit, 1MS/s/ch, Analog Input iDAQ Module

\* For detail specification of each module, please refer to the datasheet or user manual of each model respectively.