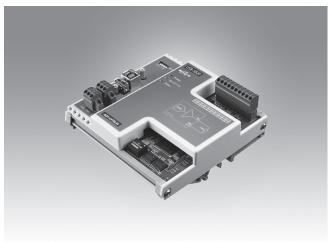
# **USB-5817** USB-5820

8-ch, 16-bit, 200 kS/s Isolated Analog **Input USB 3.0 I/O Module** 

4-ch, 16-bit, 200 kS/s Isolated Analog **Output USB 3.0 I/O Module** 





USB-5817

# ROHS C E FCC

#### **Features**

- USB 3.0 SuperSpeed
- Daisy chainable by built-in USB hub
- 8 x 16-bit analog input channels with 2,500 V<sub>DC</sub> isolation
- Support voltage and current measurement
- Wide common-mode voltage range (±275 V)
- Removable European-type connector
- Supported operating systems: Windows XP/7/8/10

## Introduction

USB-5817 is a 8-ch, 16-bit, 200 kS/s Isolated Analog Input USB 3.0 I/O Module . Its compact size and DIN-rail mount kit make it easily installed in a cabinet. Built in USB hub can support daisy chain topology. Euro type pluggable terminal blocks and LED indicator help users to maintain and set up their system. For safe and reliable operation, all of the 8 analog input channels are protected by a 2,500  $V_{\text{DC}}$  isolation circuit. Furthermore, it supports both voltage and current measurement with common-mode voltage up to ±275 V.

## **Specifications**

#### **Analog Input**

Channels Resolution 16 bits

**Input Voltage Range**  $0 \sim 10 \text{ V}, \pm 10 \text{ V}, 0-20 \text{ mA}$ 

Common-Mode Voltage Range ±275 V **Measurement Error**  $< \pm 0.1\%$ **Isolation Protection** 2,500 VDC

Sampling rate 200 kS/s (shared by all channels)

Common-mode 200 k $\Omega$ , Differential 800 k $\Omega$ Input Impedance

#### General

Interface USB 3.0 Data transfer rate 5 Gbps

Connectors 2 x 10-pin terminal block (I/O), 3.81 mm 2 x 3-pin screw terminal block (power), 3.81 mm 2 x RJ-45 (EtherCAT)

Dimensions 120 x 120 x 40 mm (4.72 x 4.72 x 1.57 in)

0 ~ 60 °C (32 ~ 140 °F) -40 ~ 70 °C (-40 ~ 158 °F) 5 ~ 95% RH (non-condensing) **Operating Temperature** Storage Temperature Storage Humidity

External 10 ~ 30 V<sub>DC</sub> or USB bus power TBD mA typ./TBD mA max. @ 24 V external power TBD mA typ./TBD mA max. @ 5 V bus power Power Supply **Power Consumption** 

## Ordering Information

All product specifications are subject to change without notice.

 USB-5817-AE 8-ch, 16-bit, 200 kS/s Isolated Analog Input USB 3.0 I/O Module

 96PSD-A40W24-MM DIN rail A/D 100 ~ 240 V, 40 W, 24 V

### **Features**

USB-5820

- USB 3.0 SuperSpeed
- Daisy chainable by built-in USB hub
- 4 x 16-bit analog output channels with 2,500 V DC isolation
- Multiple voltage and current output ranges
- Removable European-type connector
- Supported operating systems: Windows XP/7/8/10

## Introduction

USB-5820 is a 4-ch, 16-bit, 200 kS/s Isolated Analog Output USB 3.0 I/O Module. Its compact size and DIN-rail mount kit make it easily installed in a cabinet. Built in USB hub can support daisy chain topology. Euro type pluggable terminal blocks and LED indicator help users to maintain and set up their system. For safe and reliable operation, all of the 4 analog output channels are protected by a 2,500 V<sub>DC</sub> isolation circuit. Furthermore, it supports multiple voltage and current output ranges.

# **Specifications**

#### **Analog Output**

Channels 16 bits Resolution

 $0 \sim 5$  V,  $0 \sim 10$  V,  $\pm 5$  V,  $\pm 10$  V **Output Voltage Range Output Current Range** 0 ~ 20 mA, 4 ~ 20 mA (source type) Load  $> 1 k\Omega$  (voltage output)  $< 625 \Omega$  (current output)

**Output Error** < ±0.1% **Isolation Protection** 2,500 V<sub>DC</sub> Updating rate 200 kS/s Siew Rate 20 V/µs

#### General

Interface USB 3.0 Data transfer rate

Connectors 1 x 10-pin terminal block (I/O), 3.81 mm 2 x 3-pin screw terminal block (power), 3.81 mm

2 x RJ-45 (EtherCAT) Dimensions

2 x N<sub>3</sub>-45 (EtherCAT) 120 x 120 x 40 mm (4.72 x 4.72 x 1.57 in) 0 ~ 60 °C (32 ~ 140 °F) -40 ~ 70 °C (-40 ~ 158 °F) Operating Temperature Storage Temperature 5 ~ 95% RH (non-condensing) Storage Humidity External 10  $\sim$  30  $V_{DC}$  or USB bus power **Power Supply** 

TBD mA typ./TBD mA max. @ 24 V external power **Power Consumption** TBD mA typ./TBD mA max. @ 5 V bus power

## Ordering Information

USB-5820-AE

4-ch, 16-bit, 200 kS/s Isolated Analog Output USB 3.0 I/O

 96PSD-A40W24-MM DIN rail A/D 100 ~ 240 V, 40 W, 24 V

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