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**



ROHS COMPLIANT CE FCC



USB-5820

ROHS C E FCC

USB-5817 **Features**

- USB 3.0 SuperSpeed
- Daisy chainable by built-in USB hub
- 8 x 16-bit analog input channels with 2,500 V_{DC} 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 . compact size and DIN-rail mount kit make it easily installed in a cabinet. Built it, USB hub can support daisy chain topology. Euro type pluggable terminal bloc's and LED indicator help users to maintain and set up their system. For safe and reliable operation, the controller (host) side is protected by a 2,500 V_{DC} isolation circuit. Furthermore, it supports both voltage and current measurement with common-rocky ltage up to ±275 V.

Specifications

Analog Input

- Channels
- Resolution Input Voltage Range
- Common-Mode Voltage Range
- **Measurement Error Isolation Protection**
- Sampling rate
- Input Impedance

General

- Interface
- Data transfer rate
- **Connectors**
- Dimensions
- **Operating Temperature**
- Storage Temperature
- Storage Humidity **Power Supply**
- **Power Consumption**

0-20 mA ±275 V

< ±0.01% of full-scale range 2.500 Vpc

200 kS/s (shared by all channels)

Common-mode 200 k Ω , Differential 800 k Ω

USB 3.0

2 x 10-pin terminal block (3.81 mm, Al) 2 x 3-pin screw terminal block (3.81 mm, power) USB 3.0 type A (downstream port)

USB 3.0 type B (upstream port)
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)

External 10 ~ 30 VDC or USB bus power 100 mA typical @ 24 V external power 350 mA typical @ 5 V bus power

Ordering Information

USB-5817-AE

8-ch, 16-bit, 200 kS/s Isolated Analog Input

96PSD-A40W24-MM

USB 3.0 I/O Module DIN rail A/D 100 ~ 240 V, 40 W, 24 V

Features

- USB 3.0 Supr Sp 'eu
- Daisy chair ab. oy Juilt-in USB hub
- 4 x 16-bit analog output channels with 2,500 V_{DC} isolation
- Mu'ap' voltage and current output ranges
- Peinc value 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, the controller (host) side is protected by a 2,500 V_{DC} isolation circuit. Furthermore, it supports multiple voltage and current output ranges.

Specifications

Analog Output

Channels

Resolution

Output Voltage Range

Output Current Range

Load

Output Error Isolation Protection

Updating rate

16 bits

 $0 \sim 5 \text{ V}, 0 \sim 10 \text{ V}, \pm 5 \text{ V}, \pm 10 \text{ V}$ 0 ~ 20 mA, 4 ~ 20 mA (source type)

 $> 1 k\Omega$ (voltage output) $< 625 \Omega$ (current output)

< ±0.1% of full-scale range 2,500 V_{DC}

200/n kS/s, where n is number of enabled channel (n = 1 \sim 4)

General

Interface Data transfer rate

Connectors

Dimensions

Storage Humidity

Power Supply **Power Consumption**

5 Gbps 1 x 10-pin terminal block (3.81 mm, A/O) 2 x 3-pin screw terminal blocks (3.81 mm, power)

1 x USB 3.0 type A (downstream port) 1 x USB 3.0 type B (upstream port) 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)

External 10 \sim 30 $V_{\rm DC}$ or USB bus power 100 mA typ./130 mA max. @24 V external power 450 mA typ./770 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