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

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

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, the controller (host) side is protected by a 2,500 V_{DC} isolation circuit. Furthermore, it supports both voltage and current measurement with common-mode voltage up to ±275 V.

16 bits

±275 V

 $2,500 V_{\text{DC}}$

USB 3.0

5 Gbps

±10 V, 0-20 mA

< ±0.01% of full-scale range

200 kS/s (shared by all channels)

Common-mode 200 k Ω , Differential 800 k Ω

2 x 10-pin terminal block (3.81 mm, AI)

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)

External 10 ~ 30 VDc or USB bus power

100 mA typical @ 24 V external power

USB 3.0 type A (downstream port)

5 ~ 95% RH (non-condensing)

350 mA typical @ 5 V bus power

2 x 3-pin screw terminal block (3.81 mm, power)

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**

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

- USB-5817-AE
- 96PSD-A40W24-MM

Introduction

DIN rail A/D 100 ~ 240 V, 40 W, 24 V AD\ANTECH Intelligent Motion Control and Machine Vision

USB 3.0 I/O Module



USB-5820

Features

- USB 3.0 SuperSpeed
- Daisy chainable by built-in USB hub
- 4×16 -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, 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**
- Updating rate
- Slew Rate

General

- Data transfer rate
- Connectors
- Dimensions
- **Operating Temperature** Storage Temperature
- Power Supply
- External 10 ~ 30 V_{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 Module
- DIN rail A/D 100 ~ 240 V, 40 W, 24 V

Last updated: 5-Jun-2019

> 1 k Ω (voltage output) $< 625 \Omega$ (current output) < ±0.1% of full-scale range **Isolation Protection** 2,500 VDC 200/n kS/s, where n is number of enabled channel (n = $1 \sim 4$) 1 V/us

16 bits

- Interface

- **Power Consumption**

- 96PSD-A40W24-MM

USB 3.0 5 Gbps

0 ~ 5 V, 0 ~ 10 V, ±5 V, ±10 V

0 ~ 20 mA, 4 ~ 20 mA (source type)

- 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)
- Storage Humidity
 - 5~95% RH (non-condensing)