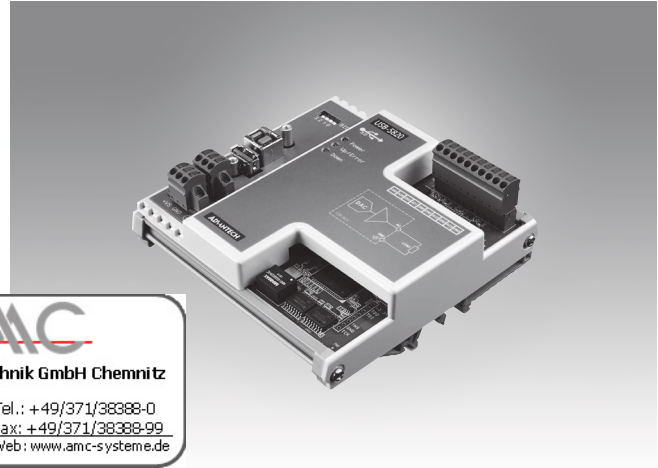
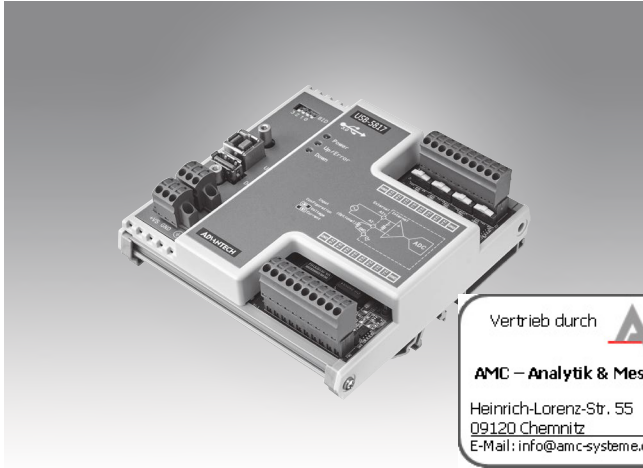


USB-5817

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



Vertrieb durch **AMC**
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USB-5817



USB-5820



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 . 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_{DC} isolation circuit. Furthermore, it supports both voltage and current measurement with common-mode voltage up to ± 275 V.

Specifications

Analog Input

- **Channels** 8
- **Resolution** 16 bits
- **Input Voltage Range** 0 ~ 10 V, ± 10 V, 0-20 mA
- **Common-Mode Voltage Range** ± 275 V
- **Measurement Error** $< \pm 0.1\%$
- **Isolation Protection** 2,500 V_{DC}
- **Sampling rate** 200 kS/s (shared by all channels)
- **Input Impedance** Common-mode 200 k Ω , Differential 800 k Ω

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)
- **Operating Temperature** 0 ~ 60 °C (32 ~ 140 °F)
- **Storage Temperature** -40 ~ 70 °C (-40 ~ 158 °F)
- **Storage Humidity** 5 ~ 95% RH (non-condensing)
- **Power Supply** External 10 ~ 30 V_{DC} or USB bus power
- **Power Consumption** TBD mA typ./TBD mA max. @ 24 V external power
TBD mA typ./TBD mA max. @ 5 V bus power

Ordering Information

- **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 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_{DC} isolation circuit. Furthermore, it supports multiple voltage and current output ranges.

Specifications

Analog Output

- **Channels** 4
- **Resolution** 16 bits
- **Output Voltage Range** 0 ~ 5 V, 0 ~ 10 V, ± 5 V, ± 10 V
- **Output Current Range** 0 ~ 20 mA, 4 ~ 20 mA (source type)
- **Load** > 1 k Ω (voltage output)
 $< 625 \Omega$ (current output)
- **Output Error** $< \pm 0.1\%$
- **Isolation Protection** 2,500 V_{DC}
- **Updating rate** 200 kS/s
- **Slew Rate** 20 V/ μ s

General

- **Interface** USB 3.0
- **Data transfer rate** 5 Gbps
- **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** 120 x 120 x 40 mm (4.72 x 4.72 x 1.57 in)
- **Operating Temperature** 0 ~ 60 °C (32 ~ 140 °F)
- **Storage Temperature** -40 ~ 70 °C (-40 ~ 158 °F)
- **Storage Humidity** 5 ~ 95% RH (non-condensing)
- **Power Supply** External 10 ~ 30 V_{DC} or USB bus power
- **Power Consumption** TBD mA typ./TBD mA max. @ 24 V external power
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 Module
- **96PSD-A40W24-MM** DIN rail A/D 100 ~ 240 V, 40 W, 24 V