

USB-5830 USB-5850 USB-5860

16-ch Isolated Digital Input and 16-ch Isolated Digital Output USB 3.0 I/O module

16-ch Isolated Digital Input & 8-ch PhotoMOS Relay USB 3.0 I/O module

8-ch Isolated Digital Input & 8-ch Relay USB 3.0 I/O module

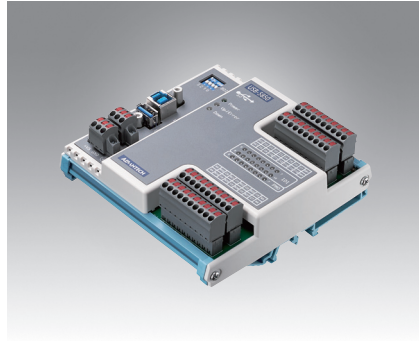


USB-5830



Features

- USB 3.0 SuperSpeed
- Daisy chainable by built in USB hub
- 16-ch digital input and 16-ch digital output with 2,500 V_{DC} isolation
- Wide input voltage range (10 ~ 30 V_{DC})
- Wide output voltage range (5 ~ 40 V_{DC}) and high output current (350 mA/ch)
- Quick removable European type connector
- LED indicators for I/O status
- Supported operating systems: Windows XP/7/8/10

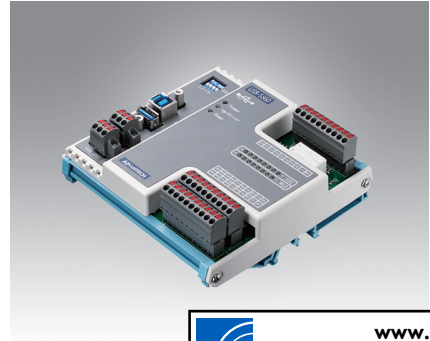


USB-5850



Features

- USB 3.0 SuperSpeed
- Daisy chainable by built in USB hub
- 16-ch digital input and 8-ch PhotoMOS Relay output (Form A) isolation
- Wide input voltage range (10 ~ 30 V_{DC})
- 1500 V_{DC} optical isolation for relay outputs
- Quick removable European type connector
- LED indicators for I/O status
- Supported operating systems: Windows XP/7/8/10



USB-5860



Features

- USB 3.0 SuperSpeed
- Daisy chainable by built in USB hub
- 8-ch Isolated Digital Input and 8-ch Form A-type Relay Output
- Wide input voltage range (10 ~ 30 V_{DC})
- High-voltage isolation on input channel (2,500 V_{DC})
- Quick removable European type connector
- LED indicators for I/O status
- Supported operating systems: Windows XP/7/8/10

Introduction

The USB-5800 series are industrial isolated digital input and output USB 3.0 I/O modules. Its compact size and DIN-rail mount kit can install easily 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. All digital input and digital output channels are protected by 2,500 V_{DC} isolation.

Specifications

Digital Input

- **Channels** 16
- **Input voltage** Logic 0: 3 V max.
Logic 1: 10 V min. (30 V max.)
- **Isolation protection** 2,500 V_{DC}

Digital Output

- **Channels** 16
- **Load voltage** 5 ~ 40 V_{DC}
- **Load current** 350mA/ch (sink) @ 25°C
250mA/ch (sink) @ 60°C
- **Isolation protection** 2,500 V_{DC}
- **Opto-isolator Response Time** 100µs

General

- **Interface** USB 3.0
- **Data transfer rates** 5 Gbps
- **Connectors** 10-pin 3.81 mm terminal block * 4 (I/O)
3-pin 3.81 mm screw terminal block (power) * 2
USB 3.0 type A (to PC)
USB 3.0 type B (hub)
120 x 120 x 40 mm
- **Dimensions** 120 x 120 x 40 mm
- **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** 10 ~ 30 V_{DC}
- **Power Consumption** Typical 240mA @ 5V;
Max. 480mA @ 5V

Ordering Information

- **USB-5830-AE** 16-ch isolated digital input & 16-ch isolated digital output USB 3.0 I/O module
- **96PSD-A40W24-MM** DIN RAIL A/D 100-240V 40W 24V

Specifications

Digital Input

- **Channels** 16
- **Input voltage** Logic 0: 3 V max.
Logic 1: 10 V min. (30 V max.)
- **Isolation protection** 2,500 V_{DC}

PhotoMOS Relay Output

- **Channels** 8
- **Relay type** PhotoMOS SPST (Form A)
- **Load Voltage** 60V (AC peak or DC)
- **Load current** 1.2A
- **Peak load current** 4A @ 100ms (1 pulse)
- **Isolation protection** 1,500 V_{DC}
- **Turn-on time** 1 ms typical
- **Turn-off time** 0.6 ms typical

General

- **Interface** USB 3.0
- **Data transfer rates** 5 Gbps
- **Connectors** 10-pin 3.81 mm terminal block * 4 (I/O)
3-pin 3.81 mm screw terminal block (power) * 2
USB 3.0 type A (to PC)
USB 3.0 type B (hub)
120 x 120 x 40 mm
- **Dimensions** 120 x 120 x 40 mm
- **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** 10 ~ 30 V_{DC}
- **Power Consumption** Typical 240mA @ 5V;
Max. 420mA @ 5V

Ordering Information

- **USB-5850-AE** 16-ch isolated digital input & 8-ch PhotoMOS relay USB 3.0 I/O module
- **96PSD-A40W24-MM** DIN RAIL A/D 100-240V 40W 24V

Specifications

Digital Input

- **Channels** 8
- **Input voltage** Logic 0: 3 V max.;
Logic 1: 10 V min. (30 V max.)
- **Isolation protection** 2,500 V_{DC}

Relay Output

- **Channels** 8
- **Relay Type** Form A
- **Contact Rating (resistive)** 2A @ 250V_{AC}, 2A @ 30V_{DC}
- **Max. Switching Power** 500VA, 60W
- **Max. Switching Voltage** 270V_{AC}, 125V_{DC}
- **Resistance** 30mΩ max.
- **Operating Time** Max. 10ms
- **Releasing Time** Max. 5ms
- **Life Expectancy** Mechanical 2 x 10⁷ ops. at no load.
Electrical 3 x 10⁴ ops. @ 2A/250V_{AC}

General

- **Interface** USB 3.0
- **Data transfer rates** 5 Gbps
- **Connectors** 10-pin 3.81 mm terminal block * 4 (I/O)
3-pin 3.81 mm screw terminal block (power) * 2
USB 3.0 type A (to PC)
USB 3.0 type B (hub)
120 x 120 x 40 mm
- **Dimensions** 120 x 120 x 40 mm
- **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** 10 ~ 30 V_{DC}
- **Power Consumption** Typical 240mA @ 5V;
Max. 460mA @ 5V

Ordering Information

- **USB-5860-AE** 8-ch isolated digital input & 8-ch relay USB 3.0 I/O module
- **96PSD-A40W24-MM** DIN RAIL A/D 100-240V 40W 24V