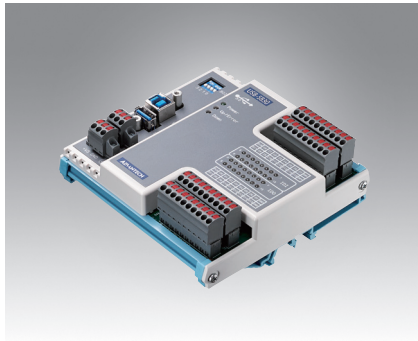


USB-5830 USB-5850 USB-5860

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

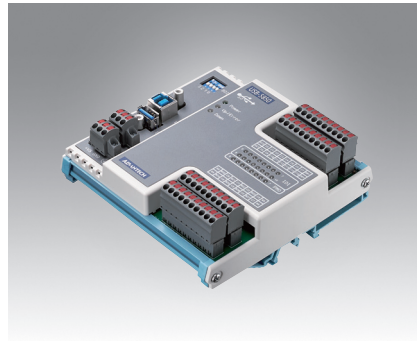


USB-5830



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

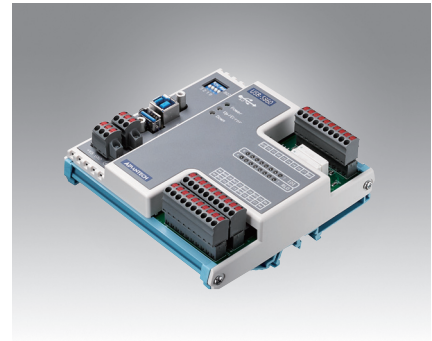


USB-5850



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
0 ~ 60°C (32 ~ 140°F)
-40 ~ 70°C (-40 ~ 158°F)
5 ~ 95% RH (non-condensing)
10 ~ 30 V_{DC}
Typical 240mA @ 5V;
Max. 480mA @ 5V
- 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
DIN RAIL A/D 100-240V 40W 24V
- 96PSD-A40W24-MM

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
0 ~ 60°C (32 ~ 140°F)
-40 ~ 70°C (-40 ~ 158°F)
5 ~ 95% RH (non-condensing)
10 ~ 30 V_{DC}
Typical 240mA @ 5V;
Max. 420mA @ 5V
- 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
DIN RAIL A/D 100-240V 40W 24V
- 96PSD-A40W24-MM

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 * 3 (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
0 ~ 60°C (32 ~ 140°F)
-40 ~ 70°C (-40 ~ 158°F)
5 ~ 95% RH (non-condensing)
10 ~ 30 V_{DC}
Typical 240mA @ 5V;
Max. 460mA @ 5V
- 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
DIN RAIL A/D 100-240V 40W 24V
- 96PSD-A40W24-MM

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