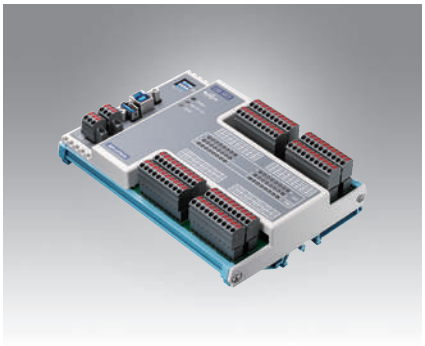
USB-5855
USB-5856
USB-5862

32-ch Isolated Digital Input & 16-ch PhotoMOS Relay USB 3.0 I/O module
32-ch Isolated Digital Input and 32-ch Isolated Digital Output USB 3.0 I/O module
16-ch Isolated Digital Input & 16-ch Relay USB 3.0 I/O module



USB-5855

Features

- USB 3.0 SuperSpeed
- Daisy chainable by built in USB hub
- 32-ch digital input and 16-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

Specifications

Digital Input

- **Channels** 32
- **Input voltage** Logic 0: 3 V max.
Logic 1: 10 V min. (30 V max.)
- **Isolation protection** 2,500 V_{DC}

PhotoMOS Relay Output

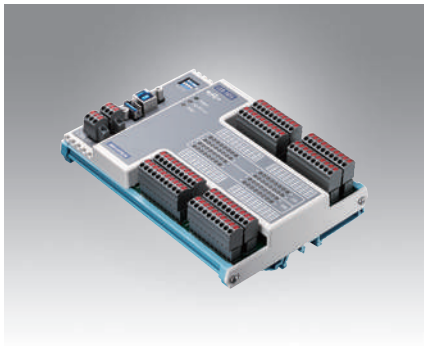
- **Channels** 16
- **Relay type** PhotoMOS SPST (Form A)
- **Load Voltage** 60V (AC peak or DC)
- **Load current** 1.2A
- **Peak load current** 4A @ 100ms (1 pulse)
- **Isolation protection** 1,500 V_{DC}
- **Turn-on time** 1 ms typical
- **Turn-off time** 0.6 ms typical

General

- **Interface** USB 3.0
- **Data transfer rates** 5 Gbps
- **Connectors** 10-pin 3.81 mm terminal block * 8 (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)
- **Dimensions** 168 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. 720mA @ 5V

Ordering Information

- **USB-5855-AE** 32-ch isolated digital input & 16-ch PhotoMOS relay USB 3.0 I/O module
- **96PSD-A40W24-MM** DIN RAIL A/D 100-240V 40W 24V



USB-5856

Features

- USB 3.0 SuperSpeed
- Daisy chainable by built in USB hub
- 32-ch digital input and 32-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

Specifications

Digital Input

- **Channels** 32
- **Input voltage** Logic 0: 3 V max.
Logic 1: 10 V min. (30 V max.)
- **Isolation protection** 2,500 V_{DC}

Digital Output

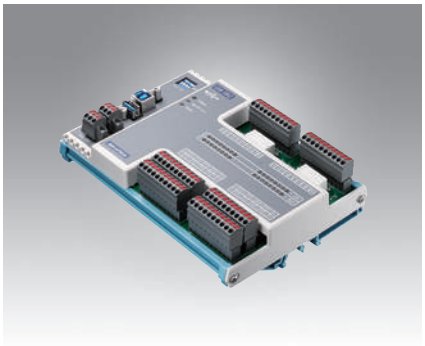
- **Channels** 32
- **Load voltage** 5 ~ 40 V_{DC}
- **Load current** 350mA/ch (sink) @ 25°C
250mA/ch (sink) @ 60°C
- **Isolation protection** 2,500 V_{DC}
- **Opto-isolator Response Time** 100us

General

- **Interface** USB 3.0
- **Data transfer rates** 5 Gbps
- **Connectors** 10-pin 3.81 mm terminal block * 8 (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)
- **Dimensions** 168 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. 600mA @ 5V

Ordering Information

- **USB-5856-AE** 32-ch isolated digital input & 32-ch isolated digital output USB 3.0 I/O module
- **96PSD-A40W24-MM** DIN RAIL A/D 100-240V 40W 24V



USB-5862

Features

- USB 3.0 SuperSpeed
- Daisy chainable by built in USB hub
- 16-ch Isolated Digital Input and 16-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

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}

Relay Output

- **Channels** 16
- **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 10^7 ops. at no load.
Electrical 3 x 10^4 ops. @ 2A/250V_{AC}

General

- **Interface** USB 3.0
- **Data transfer rates** 5 Gbps
- **Connectors** 10-pin 3.81 mm terminal block * 6 (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)
- **Dimensions** 168 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. 680mA @ 5V

Ordering Information

- **USB-5862-AE** 16-ch isolated digital input & 16-ch relay USB 3.0 I/O module
- **96PSD-A40W24-MM** DIN RAIL A/D 100-240V 40W 24V

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.

All product specifications are subject to change without notice.

Last updated: 27-Jun-2018