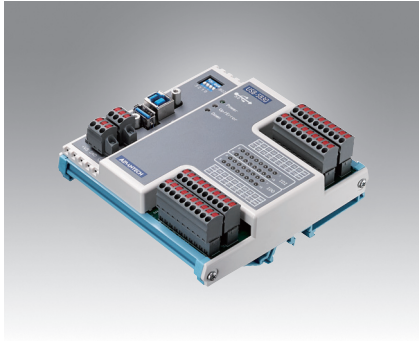# USB-5830
USB-5850
USB-5860

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

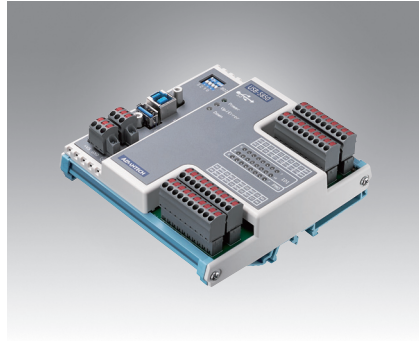8-ch Isolated Digital Input & 8-ch Relay USB 3.0 I/O module

| USB-5830 | USB-5850 | USB-5860 |

FCC CE RoHS COMPLIANT 2002/95/EC

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
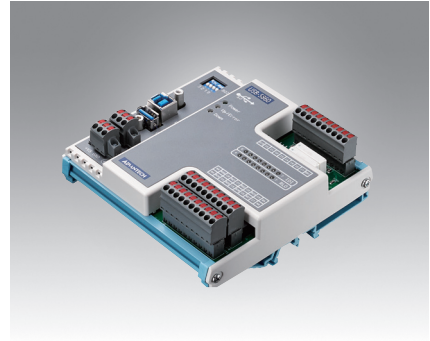- Supported operating systems: Windows XP/7/8/10

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

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** — 100us

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)
- **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

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)
- **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

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 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 * 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)
- **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-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

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

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

ADVANTECH · Industrial I/O

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for I/O Modules *category:*

Click to view products by Advantech *manufacturer:*

Other Similar products are found below :

70L-IDC5S 70L-OAC-L 70Z3289-4 G21960000700 G21960002700 G34960002700 G88104401 GUR02 OACU C4SWOUT PB16H SM-IDC15 G34960001700 G77-S G78-16-E GP34829091724 GP34960005700 JQP4 ODC-24A IDC5P FC6A-N16B1 6421 FC6A-N32B3 70MRCQ32-HL C200H-LK201-V1 G3TA-OA202SZ-US DC12 GT1-OD16 GT1-AD04CST GT1-DA04 B7AM-6BS GRT1-ML2 GRT1-TS2P CRT1-ID16TAH-1 70GRCQ24-HS CRT1-ID08 G7TC-ID16 DC24V CRT1-ID08-1 84110210 6422 AIIS-DIO32-00A1E 84110410 GT1-OD16MX GRT1-PC8 G7VC-OC16-B7 G7TC-OC08-1 DC24V G7TC-IA16 AC200/220V G7TC-OC08 DC24V 70MRCK24-DIN 2736505 ODC5AQ