

Модули ввода-вывода с интерфейсом USB серии USB-4000

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USB-4702

10 kS/s, 12-bit, 8-ch Multifunction USB Module

NEW



CE FCC RoHS

Features

- Supports USB 2.0
- Bus-powered
- 8 analog input channels
- 12-bit resolution AI
- Sampling rate up to 10 kS/s
- 8-ch DI/8-ch DO, 2-ch AO and one 32-bit counter

Introduction

USB-4702 is a low-cost USB data acquisition module. You no longer need to open the chassis to install DAQ modules. Just plug in the module, then get the data. It's easy and efficient. The USB-4702 is the perfect way to add measurement and control capability to any USB capable computer. It obtains all required power from the USB port, so no external power connection is ever required. With the features of USB-4702, it is your most cost effective choice of lab or production line test & measurement tool.

Specifications

Analog Input

- **Channels** 8 single-ended/4 differential (software programmable)
- **Resolution** 12 bits
- **Max. Sampling Rate** 10 kS/s max.
- **FIFO Size** 512 samples
- **Overvoltage Protection** 30 Vp-p
- **Input Impedance** 127 k Ω
- **Sampling Modes** Software, onboard programmable pacer, and external
- **Input Range** (V, software programmable)
Single ended: ± 10
Differential: $\pm 1, \pm 1.25, \pm 2, \pm 2.5, \pm 4, \pm 5, \pm 10, \pm 20$

Analog Output

- **Channels** 2
- **Resolution** 12 bits
- **Output Rate** Static update
- **Output Range** (V, software programmable) 0-5 V
- **Slew Rate** 0.7 V/ μ s
- **Driving Capability** 5 mA
- **Output Impedance** 51 Ω
- **Operation Mode** Single output
- **Accuracy** Relative: ± 12 LSB
Differential non-linearity: ± 5 LSB

Digital Input

- **Channels** 8
- **Compatibility** 3.3 V/5 V/TTL
- **Input Voltage** Logic 0: 0.8 V max.
Logic 1: 2.0 V min.

Digital Output

- **Channels** 8
- **Compatibility** 3.3 V/TTL
- **Output Voltage** Logic 0: 0.4 V max. @ 4 mA (sink)
Logic 1: 3.5 V min. @ 4 mA (source)

Counter

- **Channels** 1
- **Resolution** 32 bits
- **Compatibility** 3.3 V/TTL
- **Max. Input Frequency** 5 MHz

General

- **Bus Type** USB 2.0
- **I/O Connector** 1 x DB37 female connector
- **Dimensions (L x W)** 7 x 7 mm (2.76" x 2.76")
- **Power Consumption** Typical: +5 V @ 100 mA
Max.: +5 V @ 500 mA
- **Operating Temperature** 0 - 55° C (32 - 131° F)
- **Storage Temperature** -20 - 70° C (-4 - 158° F)
- **Storage Humidity** 5 - 95% RH non-condensing (refer to IEC 68-2-3)

Ordering Information

- **USB-4702** 10 kS/s, 12-bit, 8-ch Multi. USB Module
- **PCL-10137-1** DB37 Cable, 1m
- **PCL-10137-2** DB37 Cable, 2m
- **PCL-10137-3** DB37 Cable, 3m
- **ADAM-3937** DB37 DIN-rail Wiring Board

USB-4716

200 kS/s, 16-bit Multifunction USB Module



Features

- Supports USB 2.0
- Portable
- Bus-powered
- 16 analog input channels
- 16-bit resolution AI
- Sampling rate up to 200 kS/s
- 8DI/8DO, 2 AO and 1 32-bit counter (USB-4716L w/o AO)
- Wiring terminal on modules
- Suitable for DIN-rail mounting
- Lockable USB cable for rigid connection

Introduction

The USB-4700 series consists of true Plug & Play data acquisition devices. No more opening up your computer chassis to install boards—just plug in the module, then get the data. It's easy and efficient. USB-4716 offers 16SE/8Diff. inputs with 16-bit resolution, up to 200 kS/s throughput, 16 digital I/O lines and 1 user counter, and 16-bit analog outputs.

Reliable and rugged enough for industrial applications, yet inexpensive enough for home projects, the USB-4716 is the perfect way to add measurement and control capability to any USB capable computer. The USB-4716 is fully USB Plug & Play and easy to use. It obtains all required power from the USB port, so no external power connection is ever required.

Specifications

Analog Input

- **Channels** 16 single-ended/ 8 differential (SW programmable)
- **Resolution** 16 bits
- **Max. Sampling Rate*** 200 kS/s max. (For USB 2.0)
- **FIFO Size** 1024 samples
- **Overvoltage Protection** 30 Vp-p
- **Input Impedance** Off: 100 M Ω /10 pF, On: 100 M Ω /100 pF
- **Sampling Modes** Software, onboard programmable pacer, or external
- **Input Range** (V, software programmable)

Bipolar	± 10	± 5	± 2.5	± 1.25	± 0.625
Accuracy (% of FSR ± 1LSB)	0.15	0.03	0.03	0.05	0.1

*Note:

The sampling rate and throughput depends on the computer hardware architecture and software environment. The rates may vary due to programming language, code efficiency, CPU utilization and other factors.

Analog Output

- **Channels** 2
- **Resolution** 16 bits
- **Output Rate** Static update
- **Output Range** (V, software programmable)

Internal Reference	Unipolar	0 ~ 5, 0 ~ 10
	Bipolar	± 5 V, ± 10 V

- **Slew Rate** 0.125 V/ μ s
- **Driving Capability** 5 mA
- **Output Impedance** 0.1 Ω max.
- **Operation Mode** Single output
- **Accuracy** Relative: ± 1 LSB

Digital Input

- **Channels** 8
- **Compatibility** 3.3 V/5 V/TTL
- **Input Voltage** Logic 0: 0.8 V max.
Logic 1: 2.0 V min.

Digital Output

- **Channels** 8
- **Compatibility** 3.3 V/TTL
- **Output Voltage** Logic 0: 0.4 V max.
Logic 1: 2.4 V min.
- **Output Capability** Sink: 4 mA (sink)
Source: 4 mA (source)

Event Counter

- **Channels** 1
- **Compatibility** 3.3 V/5 V/TTL
- **Max. Input Frequency** 0.1~1K while using FAI; 0.1~10K while using SWAI

General

- **Bus Type** USB V2.0
- **I/O Connector** On board screw terminal
- **Dimensions (L x W x H)** 132 x 80 x 32 mm
- **Power Consumption** Typical +5 V @ 340 mA
Max.: +5 V @ 440 mA
- **Operating Temperature** 0 ~ 60 $^{\circ}$ C (32 ~ 158 $^{\circ}$ F) (refer to IEC 68-2-1, 2)
- **Storing Temperature** -20 ~ 85 $^{\circ}$ C (-4 ~ 158 $^{\circ}$ F)
- **Operating Humidity** 5 ~ 85% RH non-condensing (refer to IEC 68-1, -2, -3)
- **Storage Humidity** 5 ~ 95% RH non-condensing (refer to IEC 68-1, -2, -3)

Ordering Information

- **USB-4716** 200 kS/s, 16-bit Multifunction USB Module, one 1.8 m USB 2.0 cable included

USB-4750

32-ch Isolated Digital I/O USB Module

NEW



FCC CE

Features

- Compatible with USB 1.1/2.0
- Bus-powered
- 16 isolated DI and 16 isolated DO channels
- High voltage isolation on all channels (2500 V_{DC})
- High sink current on isolated output channels (100 mA/Channels)
- Supports 5 – 40 V_{DC} isolated input channels
- Interrupt handling
- Timer/Counter capability
- Suitable for DIN-rail mounting
- Lockable USB cable for rigid connection

Introduction

The USB-4700 series consists of true Plug & Play data acquisition devices. No more opening up your computer chassis to install boards—just plug in the module, then get the data. It's easy and efficient. USB-4750 is a 32-channel isolated digital I/O module for the USB bus. With isolation protection of 2,500 V_{DC}, and dry contact support, USB-4750 is ideal for industrial applications where high-voltage protection is required. Each I/O channel of the USB-4750 corresponds to a bit in an I/O port. This makes USB-4750 very easy to program. This module also offers a counter or timer and one digital input interrupt lines to a PC. So users can then easily do configurations by software.

Reliable and rugged enough for industrial applications, yet inexpensive enough for home projects, the USB-4750 is the perfect way to add measurement and control capability to any USB capable computer. The USB-4750 is fully USB Plug & Play and easy to use. It obtains all required power from the USB port, so no external power connection is ever required.

Specifications

Isolated Digital Input

- Channels 16
- Input Voltage Logic 0: 2 V Max
Logic 1: 5 V Min (50 V_{DC} Max) or dry contact
- Interrupt Capable Ch. 2
- Isolation Protection 2,500 V_{DC}

Isolated Digital Output

- Channels 16
- Output Type Sink (NPN)
- Isolation Protection 2,500 V_{DC}
- Output Voltage 5 – 40 V_{DC}
- Sink Current 200 mA max. per channel

Counter/Timer

- Channels 1
- Resolution 1 x 32-bit timer

1 x 16-bit Isolated Counter

- Compatibility 5 V/TTL
- Max. Input Frequency 1 MHz
- Isolation Protection 2,500 V_{DC}

General

- Bus Type USB 1.1/2.0
- I/O Connectors Onboard screw terminals
- Dimensions (L x W x H) 132 x 80 x 32 mm
- Power Consumption
Typical: 5 V @ 200 mA
Max: 5 V @ 300 mA
- Operating Temperature 0 – 60° C (32 – 140° F) (refer to IEC 68-2-1, 2)
- Storing Temperature -20 – 70° C (-4 – 158° F)
- Storing Humidity 5 – 95% RH, non-condensing (refer to IEC 68-2-3)

Ordering Information

- USB-4750 32-ch Isolated Digital I/O USB Module

USB-4751/4751L

48/24-ch TTL DI/O USB Modules

NEW



Features

- Compatible with USB 1.1/2.0
- Portable
- Bus-powered
- 48/24 TTL digital I/O lines
- Emulates mode 0 of 8255 PPI
- Buffered circuits for higher driving capacity than 8255
- Interrupt handling
- Timer/Counter interrupt capability
- Supports both dry and wet contact
- 50-pin Opto-22 compatible box header
- Suitable for DIN-rail mounting
- Lockable USB cable for rigid connection

Introduction

The USB-4700 series consists of true Plug & Play data acquisition devices. No more opening up your computer chassis to install boards—just plug in the module, then get the data. It's easy and efficient. USB-4751/4751L is a 48/24-bit digital I/O module for the USB bus. Its 48/24 bits are divided into six/three 8-bit I/O ports and users can configure each port as input or output via software. USB-4751/USB-4751L also provides one event counter and three 16-bit timers, which can be cascaded to become a 32-bit timer.

Specifications

Digital Input

- **Channels** 48/24 (shared with output)
- **Compatibility** 5 V/TTL
- **Input Voltage** Logic 0: 0.8 V max.
Logic 1: 2 V min.

Digital Output

- **Channels** 48/24 (shared with input)
- **Compatibility** 5 V/TTL
- **Output Voltage** Logic 0: 0.4 V max.
Logic 1: 2.4 V min.
- **Output Capability** Sink: 0.4 V @ 8 mA
Source: 2.4 V @ 4 mA

Counter/Timer

- **Channels** 3
- **Resolution** 2 x 16-bit counters, or 1 x 32-bit counter
1 x 16-bit event counter
- **Compatibility** 5 V/TTL
- **Max. Input Frequency** 10 MHz

General

- **Bus Type** USB 1.1/2.0
- **I/O Connectors** 50-pin IDC male connectors, pin assignments are fully compatible with Opto-22 I/O module racks
- **Dimensions (L x W x H)** 132 x 80 x 32 mm
- **Power Consumption** Typical: 5 V @ 200 mA
Max: 5 V @ 300 mA
- **Operating Temperature** 0 ~ 60° C (32 ~ 140° F) (refer to IEC 68-2-1, 2)
- **Storing Temperature** -20 ~ 70° C (-4 ~ 158° F)
- **Storing Humidity** 5 ~ 95% RH, non-condensing (refer to IEC 68-2-3)

Ordering Information

- **USB-4751** 48-ch TTL Digital I/O USB Module
- **USB-4751L** 24-ch TTL Digital I/O USB Module

USB-4711

USB-4711A

100 kS/s, 12-bit Multifunction USB Module

150 kS/s, 12-bit Multifunction USB Module



Features

- Supports USB 2.0
- Portable
- Bus-powered
- 16 analog input channels
- 12-bit resolution AI
- Sampling rate up to 150 kS/s
- 8 DI/8 DO, 2 AO and one 32-bit event counter
- Wiring terminal on modules
- Suitable for DIN-rail mounting
- Lockable USB cable for rigid connection

Introduction

The USB-4700 series consists of true Plug & Play data acquisition modules. No more opening up your computer chassis to install boards. Just plug in the module, then get the data. It's easy and efficient. Reliable and rugged enough for industrial applications, yet inexpensive enough for home projects, the USB-4711 is the perfect way to add measurement and control capability to any USB capable computer. The USB-4711 is fully USB Plug & Play and easy to use. It obtains all required power from the USB port, so no external power connection is ever required.

Specifications

Analog Input

- **Channels** USB-4711: 16 Single-ended
USB-4711A: 16 Single-ended/8 Differential (SW selectable)
- **Resolution** 12 bits
- **Max. Sampling Rate*** USB-4711: 100k S/s max.
USB-4711A: 150k S/s max.
- **FIFO Size** 1024 samples
- **Overvoltage Protection** 30 Vp-p
- **Input Impedance** USB-4711: 2 M Ω
USB-4716: 1 G Ω
- **Sampling Modes** Software, onboard programmable pacer, or external
- **Input Range** (V, software programmable)

Bipolar	± 10	± 5	± 2.5	± 1.25	± 0.625
Accuracy (% of FSR ± 1LSB)	0.1	0.1	0.2	0.2	0.4

*Note:

The sampling rate and throughput depends on the computer hardware architecture and software environment. The rates may vary due to programming language, code efficiency CPU utilization and so on.

Analog Output

- **Channels** 2
- **Resolution** 12 bits
- **Output Rate** Static update
- **Output Range** (V, software programmable)

Internal Reference	Unipolar	0 ~ 5, 0 ~ 10
	Bipolar	$\pm 5, \pm 10$

- **Slew Rate** USB-4711: 0.7 V/ μ s
USB-4711A: 0.15 V/ μ s
- **Driving Capability** USB-4711: 3 mA @ 10 V
USB-4711A: 2 mA @ 10 V
- **Output Impedance** 0.5 Ω
- **Operation Mode** Single output
- **Accuracy** Relative: ± 1 LSB
Differential Non-linearity: ± 1 LSB

Digital Inputs

- **Channels** 8
- **Compatibility** 3.3 V/5 V/TTL
- **Input Voltage** Logic 0: 0.8 V max.
Logic 1: 2.0 V min.

Digital Outputs

- **Channels** 8
- **Compatibility** 3.3 V/TTL
- **Output Voltage** Logic 0: 0.8 V max. @ 4 mA (sink)
Logic 1: 2.0 V min. @ 4 mA (source)

Event Counter

- **Channels** 1
- **Compatibility** 3.3 V/TTL
- **Max. Input Frequency** 1 kHz

General

- **Bus Type** USB 2.0
- **I/O Connector** On board screw terminal
- **Dimensions (L x W x H)** 132 x 80 x 32 mm
- **Power Consumption** Typical: +5 V @ 340 mA
Max: +5 V @ 440 mA
- **Operating Temperature** 0 ~ 60° C (32 ~ 140° F) (refer to IEC 68-2-1, 2)
- **Storing Temperature** -20 ~ 70° C (-4 ~ 158° F)
- **Storing Humidity** 5 ~ 95% RH non-condensing (refer to IEC 68-2-3)

Ordering Information

- **USB-4711** 100 kS/s, 12-bit Multifunction USB Module, one 1.8 m USB 2.0 cable included
- **USB-4711A** 150 kS/s, 12-bit Multifunction USB Module, one 1.8 m USB 2.0 cable included

USB-4718

8-channel Thermocouple Input USB Module

NEW



Features

- Supports USB 2.0
- Support voltage, current, and thermocouple inputs
- No need for the external power
- 8 thermocouple input channels
- 2,500 V_{DC} isolation
- Supports 4–20 mA
- Wiring terminal on modules
- 8-ch isolated DI and 8-ch isolated DO

Introduction

The USB-4700 series consists of true Plug & Play data acquisition devices. No more opening up your computer chassis to install boards—just plug in the module, then get the data. It's easy and efficient. USB4718 offers 8 thermocouple inputs with 16-bit resolution, up to 0.1% input range accuracy, or 4–20 mA inputs.

Reliable and rugged enough for industrial applications, yet inexpensive enough for home projects, the USB-4718 is the perfect way to add measurement and control capability to any USB capable computer. The USB-4718 is fully USB plug and play and easy to use. It obtains all required power from the USB port, so no external power connection is ever required.

Specifications

Analog Input

- **Accuracy** $\pm 0.1\%$ for voltage input
- **Bandwidth** 13.1 Hz @ 50 Hz,
15.72 Hz @ 60 Hz
- **Channels** Eight differential
- **Ch. Independent Conf.** Yes
- **CMR @ 50/60 Hz** 92 dB min.
- **Resolution** 16 bits
- **Input Impedance** 20 M Ω
- **Input Range** 0–15 mV, 0–50 mV, 0–100 mV, 0–500 mV,
0–1 V, 0–2.5 V, 0–20 mA, 4–20 mA

- **Input Types** Thermocouple, mV, V, mA
- **Sampling Rate** 10 samples/sec. (total)
- **Span Drift** ± 25 ppm/ $^{\circ}$ C
- **T/C Type and Temperature Ranges**

J	0 – 760 $^{\circ}$ C	R	500 – 1750 $^{\circ}$ C
K	0 – 1370 $^{\circ}$ C	S	500 – 1750 $^{\circ}$ C
T	-100 – 400 $^{\circ}$ C	B	500 – 1800 $^{\circ}$ C
E	0 – 1000 $^{\circ}$ C		

- **TVS/ESD Protection** Built-in
- **Zero Drift** ± 3 μ V/ $^{\circ}$ C

Isolated Digital Input

- **Channels** 8
- **Input Voltage** Logic 0: 2 V max.
Logic 1: 5 V min. (30 V max.)
- **Isolation Protection** 2,500 V_{DC}
- **Opto-Isolator Response** 25 μ s

Isolated Digital Output

- **Channels** 8
- **Output Type** Sink (NPN)
- **Isolation Protection** 2,500 V_{DC}
- **Output Voltage** 5 – 30 V_{DC}, 1.1 A max/total
- **Sink Current** 200 mA max./channel
- **Opto-isolator Response** 25 μ s

General

- **Bus Type** USB 2.0
- **I/O Connector** On board screw terminal
- **Dimensions (LxWxH):** 132 x 80 x 32 mm
- **Power Consumption** 0.1 A @ 5 V
- **Power Input** 5 V from USB line
- **Watchdog Timer** 1.6 sec. (system)
- **Operating Temperature** 0 – 60 $^{\circ}$ C (32 – 140 $^{\circ}$ F) (refer to IEC 68-2-1, 2)
- **Storing Temperature** -20 – 70 $^{\circ}$ C (-4 – 158 $^{\circ}$ F)
- **Storing Humidity** 5 – 95% RH non-condensing (refer to IEC 68-2-3)

Ordering Information

- **USB-4718** 8-channel Thermocouple Input USB Module, CD, manual and one 1.8m USB 2.0 cable included

USB-4761

8-ch Relay, 8-ch Isolated D/I USB Module

NEW



Features

- Supports USB 2.0
- Portable
- No need for the external power
- 8 relay output channels and 8 isolated digital input channels
- LED indicators to show activated relays
- 8 Form C type relay output channels
- High-voltage isolation on input channels (2,500 V_{DC})
- High ESD protection (2,000 V_{DC})
- Wide input range (5 ~ 30 V_{DC})
- Interrupt handling capability
- Wiring terminal on Modules

Introduction

The USB-4761 is a relay actuator and isolated D/I module for USB bus. It provides 8 optically-isolated digital inputs with isolation protection of 2,500 V_{DC} for collecting digital inputs in noisy environments and 8 relay actuators for serving as on/off control devices or small power switches. For easy monitoring, each relay is equipped with one red LED to show its on/off status. The USB-4761's eight optically-isolated digital input channels are ideal for digital input in noisy environments or with floating potentials.

Rugged Protection

The USB-4761 digital input channels feature a rugged isolation protection for industrial, lab and machinery automation applications. It durably withstands voltage up to 2,500 V_{DC}, protecting your host system from any incidental harms. If connected to an external input source with surge-protection, the USB-4761 can offer up to a maximum of 2,000 V_{DC} ESD (Electrostatic Discharge) protection.

Specifications

Isolated Digital Input

- **Channels** 8
- **Input Voltage** Logic 0: 2 V max.
Logic 1: 10 V (30 V max.)
- **Isolation Protection** 2,500 V_{DC}
- **Opto-Isolator Response** 25 μs
- **Input Current** 30 V_{DC}/1 A

Relay Output

- **Channels** 8
- **Relay Type** SPDT (8 x Form C)
- **Contact Rating** 250 V_{AC} @ 3 A, or 24 V_{DC} @ 3 A
- **Relay on Time** 15 ms max.
- **Relay off Time** 5 ms max.
- **Life Span** 2 x 10⁷
- **Resistance** Contact: 50 MΩ
Insulation: 1 GΩ min. (at 500 V_{DC})

General

- **Bus Type** USB 2.0
- **I/O Connectors** On-board screw terminal
- **Dimensions (L x W x H)** 132 x 80 x 32 mm
- **Power Consumption** Typical: +5 V @ 60 mA
Max: +5 V @ 400 mA
- **Operating Temperature** 0 ~ 60° C (32 ~ 140° F) (IEC 68-2-1, 2)
- **Storing Temperature** -20 ~ 70° C (-4 ~ 158° F)
- **Storing Humidity** 5 ~ 95 % RH, non-condensing (IEC 68-2-3)

Ordering Information

- **USB-4761** 8-ch Relay, 8-ch Isolated D/I USB Module

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