USB-4711

100 kS/s, 12-bit Multifunction USB Module



Features

- Supports USB 2.0
- Portable
- No need for external power •
- 16 analog input channels
- 12-bit resolution Al
- Sampling rate up to 100 kS/s
- 8 DI / 8 DO, 2 AO and one 32-bit event counter •
- · Wiring terminal on modules

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 	16 Single-ended					
 Resolution 	12	bits				
Max. Sampling Rate*	100k S/s max. (For USB 2.0)					
 FIFO Size 	102	24 sample	S			
 Overvoltage Protection 	30	Vр-р				
 Input Impedance 	2 N	1Ω/ 5 pF				
 Sampling Modes 	Software, onboard programmable pacer, or external					
	(V, software programmable)					
 Input Range 	(V,	software	e prograr	nmable)		
 Input Range Bipolar 	(V,	software ± 10	e prograr ± 5	nmable) ± 2.5	± 1.25	± 0.625
				,	± 1.25 0.02	± 0.625 0.04

Analog Output

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

Internal Reference	Unipolar	0 ~ 5, 0 ~ 10
	Bipolar	±5, ±10
 Slew Rate 	11 V/µs	
 Driving Capability 	3 mA @ 10 \	/
 Output Impedance 	0.81 Ω	
 Operation Mode 	Single outpu	t
 Accuracy 	Relative: ±1 Differential N	LSB Ion-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)
 Output Capability 	Sink: 4 mA
	Source: 4 mA
Event Counter	
 Channels 	1
 Compatibility 	3.3 V/5 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 Info	rmation

Ordering Information

USB-4711

USB

100 kS/s, 12-bit Multifunction USB Module. CD, manual and one 1.8 m USB 2.0 cable included