



2-CH Encoder Card with Real-time trigger I/O

Features

- Synchronizes devices via real-time I/O
- Applied to area scan and line scan applications
- Integrates multiple I/O
 - 2-CH 32-bit incremental quadrature encoder input
 - 4-CH trigger input
 - 4-CH trigger output
 - 8-CH isolated DI, 8-CH isolated DO
- Programmable interrupt functions
- PCI Express x1 compliant



The AX92352 integrates advanced vision I/O capabilities for machine vision applications, such as synchronizing multiple frame grabbers in line scan and multiple cameras in area scan. It provides 2-CH encoder input with the FIFO function to achieve the tasks of position comparison and linear trigger. Furthermore, it also has trigger I/O with a microsecond-scale real-time control camera to capture images, as well as isolated DIO that can be used with other devices for your vision cases. The AX92352 vision I/O card can fit in the PCI Express slot of any vision control system to simplify the deployment of your machine vision platform



Specifications

Isolated Encoder In	put
Channels	2-CH 32-bit incremental quadrature encoder input (A/B/Z)
Туре	Differential or single-ended 5V, 12V open collector
Counter Mode	x1/4, x1/3, x1/2, x1, x2, x4
Input Filter	Programmable de-bounce filter
Frequency Input	Max. 1MHz
Operating Mode	Linear function, FIFO, Position latch
lsolated Trigger Inp	ut
Channels	4-CH
Туре	Sink
Input range	On (Logic 1): 3.3 to 30 VDC Off (Logic 0): 0 to 2 VDC
Response Time	1us (from trigger input to trigger output)
Input Filter	Programmable de-bounce filter
lsolated Trigger Out	put
Channels	4-CH
Output Voltage	0 to 30 VDC, sink, open collector
Output Current	Current: max. 100mA per channel
Response Time	1us (from trigger input to trigger output)
Configuration	Derived from 4CH trigger input or encoder input. The user can set the pulse delay time and duration time
Trigger Sources	4CH trigger input/encoder: 4 x Linear function, 2 x FIFO (each channel supports two sources)
Isolated Digital Inpu	ut
Channels	8-CH
Туре	Sink/Source
Input Voltage	On (Logic 1): 10 to 30 VDC or dry contact Off (Logic 0): 0 to 3 VDC
Impedance	7.5KΩ
Isolated Digital Out	put
Channels	8-CH
Output type	Sink, open collector
Supply voltage	5 to 30 VDC
Sink current	Max. 200 mA per channel

Interrupt	
Sources	Two interrupt sources from DI, Trigger/Latch input, Encoder Z phase, FIFO empty, encoder overflow and encoder linear function
General Specifications	
Bus Type	PCI Express x1
I/O Connector	D-sub 44-pin female connector
Isolation Voltage	2 kVDC
Power Requirements	180mA @ +3.3V (Max.) 120mA @ +12V (Max.)
Dimensions	168 x 100 mm
Board ID	Yes, 4-bit
Operating Temperature	0°C to +70°C (32°F to +158°F)
Storage Temperature	-20°C to +80°C (-4°F to +176°F)
Humidity	10 to 95% RH, non-condensing
Software Support	
EOS Support	Windows® 7/Windows® 10 (32/64bit)
Software Compatibility	С#, С/С++

Ordering Information

AX92352	2-CH Encoder Card with Real-time trigger I/O
AX92353	4-CH lighting control module (this optional module cannot be operating independently, please apply with AX92352)
Accessories	
5A244AP1200E	44-pin DIN-rail terminal board DM44-AP12
5A244AP1200E 594DM443500E	44-pin DIN-rail terminal board DM44-AP12 44-pin D-SUB cable, L=1m WHDM44/1.0-6954
594DM443500E	44-pin D-SUB cable, L=1m WHDM44/1.0-6954

Updated Apr. 15, 2020.

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