AR-B104D

ITS/Telematics Excellent 100

AR-B104D 24 Channel Super Digital I/O, SRAM & CAN Bus PCI-104 Module

PCI-104 Module

Features

- 12x optical isolated digital inputs. Support counter mode
- 12x 500 mA current sink digital outputs. Support pulse generator mode.
- 1MB battery backup SRAM disk. Supports disk and memory modes.
- CAN bus Support 2.0A and 2.0B protocol.
- Time stamp of CAN message
- Linux and Windows 2000, XP Software Development Kit (SDK).

Specification

General

Bus interface	PCI 104 PCI 2.0 Compliant
SRAM disk	• Capacity: 1M Bytes • Battery backup • Operation mode: A.Memory Mode B.Disk Mode (Support in Linux only)
Digital Input	• 12 optical isolated channels • Operating mode: A.General digital input B.Counter mode • Programmable de-bounce time (0 ms to 255ms, 1 ms resolution). • Change of State interrupt • Response time: 20 uS + de-bounce time • Trigger: rising trigger or falling trigger • Signal Type: A.Open/Ground switch input B.Digital Logici. Logic High: 3V to 28V Logic Low : 0V to 1.5V8. • Maximum input frequency 10KHz.
Counter	• All digital input support counter mode • 12 x independent 16-bit counters
Digital Output	• 12 channels • Output Type: Open drain MOSFET driver • Output voltage range: 5V to 30V • Sink Current: maximum 500mA each channel
Pulse Generator	• All digital outputs support pulse generator mode • 12 x End of pulses interrupt capable counters • Programmable cycle time, duty cycle and number of cycles. • Maximum 65535 cycles • RUN & STOP command • Programmable time unit: 1 ms, 100ms and 1 second
Timer	• 12 x independent 16-bit timers • Support Time Out Interrupt • Programmable time unit: 1 ms and 100ms

General

CAN bus	• 1 x CAN bus • 2KV isolation • Support both CAN 2.0A and 2.0B protocol • Programmable baud rate: from 5K bps Maximum 1M bps or user-defined baud rate • Time stamp of CAN message • API library for user development • CAN bus device status query • Device driver for Windows 2000/XP/XPe and Linux
Maximum card	Maximum 2 cards can be stacked up in one system
Software	• Windows XP, XPe and Linux device driver and API • Windows XP, XPe and Linux demo program • User interface for DIO, SRAM and CAN bus in Linux and Windows XP embedded

Mechanical

Dimension	90.17 x 95.89mm (3.55”x3.775”)
Operating Temp.	0~60°C (32~140°F) without air flow
Storage Temp.	-20~80°C (-4~176°F)
Relative Humidity	0 to 90% @ 40°C, non-condensing

Dimensions