

# CP-602E-I Series

## 2-port CAN interface PCI Express board with 2 KV isolation



- > CAN 2.0A and CAN 2.0B supported
- > Two independent CAN communication ports
- > CAN transfer rate up to 1 Mbps
- > 2 KV optical isolation protection
- > LED for transmit/receive status on each port
- > Optional 120 ohm terminal resistor for CAN bus network
- > DLL library and examples included
- > Windows driver provided



### Overview

Moxa's new CP-602E-I CAN (Controller Area Network) interface board supports the PCI Express interface. As a stand-alone CAN controller, the CP-602E-I is a cost-effective solution that provides two active CAN controllers with a DB9 connector on the same board. The CP-602E-I CAN interface board uses the NXP SJA1000 and transceiver

PCA82C251, which provide the bus arbitration and error detection. The -40 to 85°C wide operating temperature (CP-602E-I-T only) and 2 KV isolation make the boards suitable for use in harsh industrial environments.

### Specifications

#### Hardware

**Card Interface:** PCI Express

**Connectors:** DB9 male

**Ports:** 2

**CAN Controller:** NXP SJA1000

**CAN Transceiver:** PCA82C251

**CAN Specification:** CAN 2.0 A/B

**Signal Support:** CAN\_H, CAN\_L, GND

**Transfer Rate:** 1 Mbps

**Max. Number of Boards per PC:** 4

**Optical Isolation:** 2 KV

**Termination Resistor:** 120 ohm (selected by jumper)

#### Software

**Operating Systems:** Windows 2000, Windows XP/2003/Vista/2008 (x86 and x64), Windows 7

**Libraries:** Visual Basic, C/C++

#### Physical Characteristics

**Dimensions:** 120 x 80 mm (4.72 x 3.15 in)

#### Environmental Limits

##### Operating Temperature:

Standard Models: 0 to 55°C (32 to 131°F)

Wide Temp. Models: -40 to 85°C (-40 to 185°F)

**Operating Humidity:** 5 to 95% RH

**Storage Temperature:** -40 to 85°C (-40 to 185°F)

#### Regulatory Approvals

**EMS:** EN61000-3-3, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8, IEC61000-4-11, FCC Part 15 Class B

#### Power Requirements

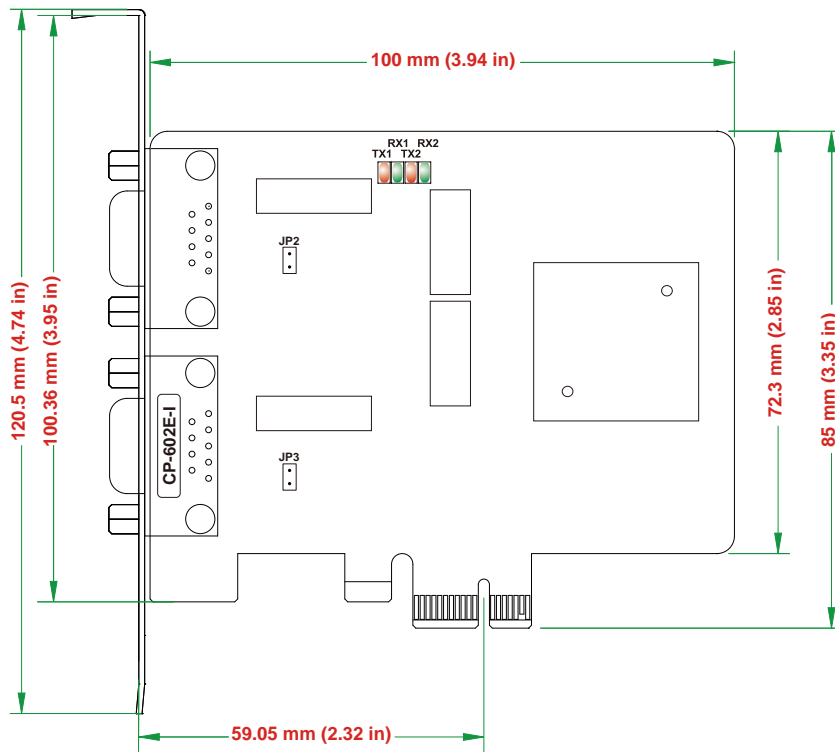
**Power Consumption:** 780 mA @ 5 VDC

#### Warranty

**Warranty Period:** 5 years

**Details:** See [www.moxa.com/warranty](http://www.moxa.com/warranty)

### Dimensions



### : Ordering Information

#### Available Models

**CP-602E-I:** 2-port CAN interface PCI Express board, with 2 KV optical isolation protection, 0 to 55°C operating temperature

**CP-602E-I-T:** 2-port CAN interface PCI Express board with 2 KV optical isolation protection, -40 to 85°C operating temperature

#### Package Checklist

- PCI Express Board with standard bracket
- Document and Software CD
- Quick Installation Guide (printed)
- Warranty Card

### : Pin Assignment

PIN	Signal
2	CAN L
3	CAN GND
5	Shield
7	CAN H

DB9 male

