

# CP-602E-I Series

## 2-port CAN interface PCI Express boards 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 electrical isolation
- > 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

- Connectors:** DB9 male x 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
- Electrical Isolation:** 2 kV
- Termination Resistor:** 120 ohm (selected by jumper)

#### Driver Support

- Operating Systems:** Windows 2000, Windows XP/2003/Vista/2008 (x86/x64)
- Linux Real TTY Drivers:** Linux 2.6.x, 3.x
- Note:** Please refer to Moxa's website for the latest driver support information.

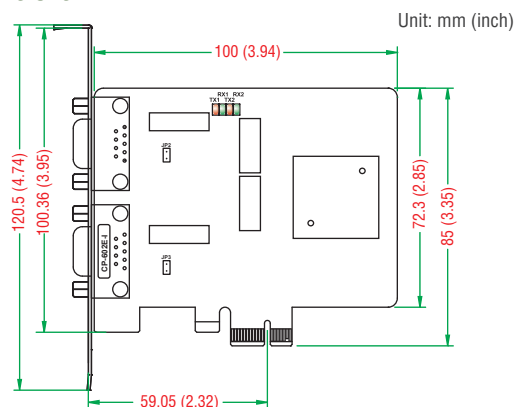
#### Software

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

#### 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)

#### Dimensions



- Storage Temperature:** -40 to 85°C (-40 to 185°F)
- Ambient Relative Humidity:** 5 to 95% (non-condensing)
- Altitude:** Up to 2000 m
- Note:** Please contact Moxa if you require products guaranteed to function properly at higher altitudes.

#### Standards and Certifications

- EMC:** CE, FCC
- EMI:** EN 61000-3-2, EN 61000-3-3, FCC Part 15 Subpart B Class B
- EMS:** IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11 (DIPS)
- Green Product:** RoHS, CRoHS, WEEE

#### MTBF (mean time between failures)

- Time:** 248,563 hrs
- Database:** Telcordia (Bellcore), GB

#### Power Requirements

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

#### Warranty

- Warranty Period:** 5 years
- Details:** See [www.moxa.com/warranty](http://www.moxa.com/warranty)

### Ordering Information

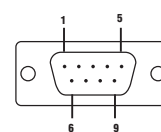
#### Available Models

- CP-602E-I:** 2-port CAN interface PCI Express board, with 2 kV electrical isolation, 0 to 55°C operating temperature
- CP-602E-I-T:** 2-port CAN interface PCI Express board with 2 kV electrical isolation, -40 to 85°C operating temperature

### Pin Assignment

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

DB9 male



#### Package Checklist

- 1 PCI Express board with standard bracket
- Documentation and software CD
- Quick installation guide (printed)
- Warranty card