

# 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



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Multiport Serial Boards > CP-602E-I Series

### 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++

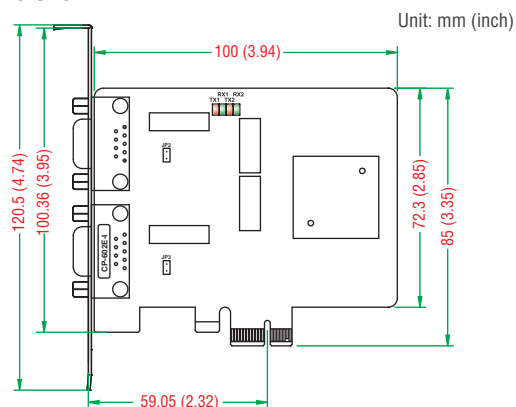
#### Environmental Limits

##### 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

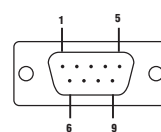
**CP-602E-I:** 2-port CAN interface PCI Express board, with 2 kV electrical isolation, 0 to 55°C operating temperature

**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