

# CP-602U-I Series

## 2-port CAN Interface Universal PCI 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 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-602U-I CAN (Controller Area Network) interface board supports the Universal PCI interface. As a stand-alone CAN controller, the CP-602U-I is a cost-effective solution that provides two active CAN controllers with a DB9 connector on the same board. The CP-602U-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-602U-I-T only) and 2 KV isolation make the boards suitable for use in harsh industrial environments.

### Specifications

#### Hardware

**Card Interface:** Universal PCI  
**Connectors:** DB9 male x 2  
**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)

#### Driver Support

**Operating Systems:** Windows XP/2003/Vista/2008/7 x86/x64  
*Note: Please refer to Moxa's website for the latest driver support information.*

#### Software

**Operating Systems:** Windows 2000, Windows XP/2003/Vista/2008/7 (x86 and x64)  
**Libraries:** Visual C/C++, Borland C/C++

#### Physical Characteristics

**Dimensions:** 80 x 120 mm (3.15 x 4.72 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)  
**Storage Temperature:** -40 to 85°C (-40 to 185°F)  
**Ambient Relative Humidity:** 5 to 95% (non-condensing)

#### 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:** 1,989,990 hrs  
**Database:** Telcordia (Bellcore), GB

#### Power Requirements

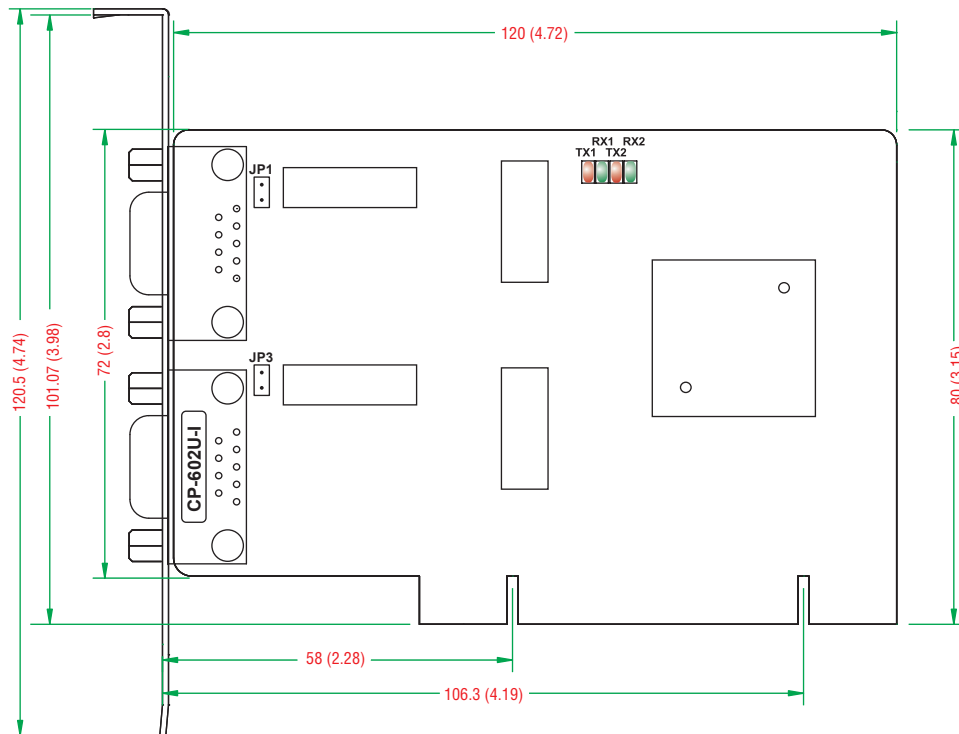
**Power Consumption:** 365 mA @ 5 VDC

#### Warranty

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

## Dimensions

Unit: mm (inch)



## Ordering Information

### Available Models

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

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

### Package Checklist

- 1 Universal PCI board with standard bracket
- Documentation 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

