

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

Windows: Windows 2000, Windows XP/2003/Vista/2008 (x86/x64)

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)
Storage Temperature: -40 to 85°C (-40 to 185°F)
Ambient Relative Humidity: 5 to 95% (non-condensing)

Standards and Certifications

EMC: EN 55032/24
EMI: CISPR 32, FCC Part 15B Class B
EMS:
 IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV
 IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m
 IEC 61000-4-4 EFT: Power: 1 kV
 IEC 61000-4-5 Surge: Power: 2 kV
 IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m
 IEC 61000-4-8 PFMF
 IEC 61000-4-11

MTBF (mean time between failures)

Time: 4,645,502 hrs

Standard: Telcordia (Bellcore) SR-332

Power Requirements

Input Current: 780 mA @ 5 VDC

Warranty

Warranty Period: 5 years

Details: See 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

Connection Options (can be purchased separately)

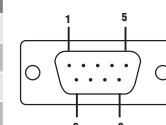
CBL-F9M9-150: DB9-F to DB9-M serial cable, 150 cm

CBL-F9M9-20: DB9-F to DB9-M serial cable, 20 cm

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

Dimensions

