CB-602I Series

2-port CAN interface PC/104-Plus modules 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 drivers provided

Overview

Moxa's new CB-602I CAN (Controller Area Network) interface board supports the PC/104-Plus interface. Optional DB9 and DB25 connection cables are available for connecting to CAN interface device. The CB-602I 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 (CB-602I-T only) and 2 kV isolation make the boards suitable for use in harsh industrial environments.

Specifications

Hardware

Connector: 20-pin box header
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 ohms (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)
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 61000-3-3, 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

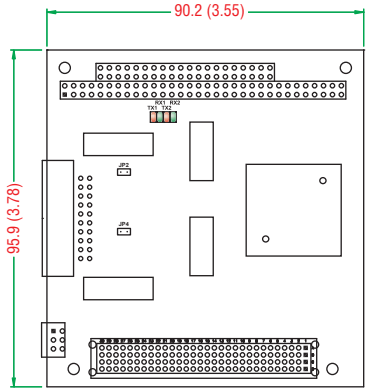
Power Consumption: 380 mA @ 5 VDC

Warranty

Warranty Period: 5 years
Details: See www.moxa.com/warranty

Dimensions

Unit: mm (inch)



Ordering Information

Available Models

CB-602I: 2-port CAN interface PC/104-Plus module with 2 kV electrical isolation, 0 to 55°C operating temperature
CB-602I-T: 2-port CAN interface PC/104-Plus module with 2 kV electrical isolation, -40 to 85°C operating temperature

Package Checklist

- 1 PC/104-Plus Module
- Documentation and software CD
- Quick installation guide (printed)
- Warranty card

Connection Options (can be ordered separately)

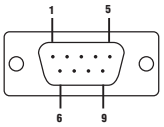
CBL-F20M9x2-50

20-pin box header to DB9 male x 2 connection cable, 50 cm



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

DB9 male



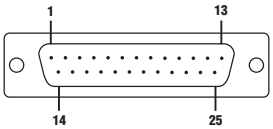
CBL-F20M25x2-50

20-pin box header to DB25 male x 2 connection cable, 50 cm



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

DB25 male



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