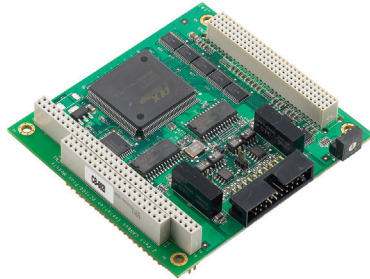


# CB-602I Series

## 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

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

#### 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; Signal: 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:** 248,563 hrs  
**Standard:** Telcordia (Bellcore) TR/SR

#### Power Requirements

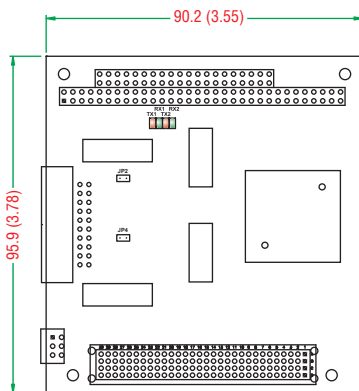
**Input Current:** 380 mA @ 5 VDC

#### Warranty

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

**Dimensions**

Unit: mm (inch)



**Ordering Information**

**Available Models**

**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

**Connection Options** (can be purchased separately)

**CBL-F20M25x2-50:** F20 to 2 x DB25-M cable, 50 cm

**Package Checklist**

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

**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**

