CB-602I Series

2-port CAN interface PC/104-Plus module with 2 KV isolation

- CAN 2.0A and CAN 2.0B supported
- Two independent CAN communication ports
- High speed transmission up to 1 Mbps
- SJA1000 controller supports a 64-byte FIFO receiver buffer
- 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 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
- Module Interface: PC/104-Plus bus
- Connectors: 20-pin box header
- Ports: 2
- CAN Controller: NXP SJA1000
- CAN Transceiver: PCA82C251
- Protocol: CAN 2.0 A/B
- Signal Support: CAN_H, CAN_L, GND
- Speed: 1 Mbps
- FIFO: 64 bytes
- Max. Number of Boards per PC: 4

Serial Line Protection
- Optical Isolation: 2 KV

Performance
- Built-in Termination Resistor: 120 ohm

Software
- Libraries: Visual Basic, C/C++

Physical Characteristics
- Dimensions: 90 x 96 mm (3.54 x 3.78 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)
- Operating Humidity: 5 to 95% RH
- Storage Temperature: -40 to 85°C (-40 to 185°F)

Regulatory Approvals
- EMS: EN61000-3-3, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8, IEC61000-4-11, FCC Part 15 Class B

Power Requirements
- Power Consumption: 380 mA @ 5 VDC

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

- Dimensions: 90.2 mm (3.55 in)
- Dimensions: 50.6 mm (2.0 in)

### Ordering Information

#### Available Models
- **CB-602I**: 2-port CAN interface PC/104-Plus module with 2 KV optical isolation protection, 0 to 55°C operating temperature
- **CB-602I-T**: 2-port CAN interface PC/104-Plus module with 2 KV optical isolation protection, -40 to 85°C operating temperature

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

- **CBL-F20M9x2-50**: 20-pin box header to DB9 male x 2 connection cable, 50 cm

<table>
<thead>
<tr>
<th>PIN</th>
<th>Signal</th>
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<tbody>
<tr>
<td>2</td>
<td>CAN L</td>
</tr>
<tr>
<td>3</td>
<td>CAN GND</td>
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<tr>
<td>5</td>
<td>Shield</td>
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<tr>
<td>7</td>
<td>CAN H</td>
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</tbody>
</table>

- **CBL-F20M25x2-50**: 20-pin box header to DB25 male x 2 connection cable, 50 cm

<table>
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#### Package Checklist
- PC/104-Plus Module
- Document and Software CD
- Quick Installation Guide (printed)
- Warranty Card