

CB-602I Series

2-port CAN interface PC/104-Plus modules with 2 kV isolation



Features and Benefits

- Supports CAN 2.0 A/B and CAN FD
- CAN FD transfer rate up to 5 Mbps
- CAN 2.0 A/B transfer rate up to 1 Mbps
- Two independent CAN communication ports
- 2 kV electrical isolation
- LED for transmit/receive status on each port
- Optional 120-ohm terminal resistor for CANbus network
- Drivers provided for Windows and Linux
- DLL library and examples included

Certifications



Introduction

Moxa's CB-602I CAN (Controller Area Network) interface boards support the PC/104-Plus interface and feature an FPGA-based CAN controller with support for both Classical CAN and CAN FD communication. The FPGA architecture provides design flexibility, long-term maintainability, and high-performance CAN communication while maintaining backward compatibility with existing CAN networks. The boards incorporate the TCAN1044A CAN FD transceiver to provide a robust physical layer for reliable CAN/CAN FD communication. With 2 kV isolation and a wide operating temperature range of -40 to 85°C (CB-602I-T only), the boards are well suited for deployment in harsh industrial environments.

Specifications

Serial Interface

Isolation	2 kV
Max. No. of Boards per PC	8

CAN Interface

Bitrate	CAN 2.0 A/B: 10/20/50/125/250/500/800/1000 kbps, user-defined CAN FD: 500/1000/2000/5000 kbps, user-defined
Connector	20-pin box header
No. of Ports	2

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 (package included)	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)

Standards and Certifications

EMC	EN 55032/35
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

Declaration

Green Product	RoHS, CRoHS, WEEE
---------------	-------------------

MTBF

Time	248,563 hrs
Standards	Telcordia (Bellcore), GB

Warranty

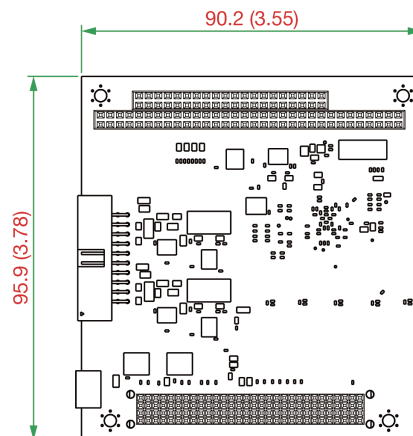
Warranty Period	5 years
Details	See www.moxa.com/warranty

Package Contents

Device	1 x CB-602I Series PC/104-Plus module
Documentation	1 x quick installation guide 1 x substance disclosure table 1 x warranty card

Dimensions

Unit: mm (inch)



Ordering Information

Model Name	Serial Bus	CAN Specification	No. of Serial Ports	Serial Isolation Protection	Operating Temp.
CB-602I w/o Cable	PC/104-Plus	CAN 2.0 A/B and CAN FD	2	2 kV	0 to 55°C
CB-602I-T w/o Cable	PC/104-Plus	CAN 2.0 A/B and CAN FD	2	2 kV	-40 to 85°C

