CAN Interface Board
Quick Installation Guide

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Technical Support Contact Information
www.moxa.com/support

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P/N: 1802006020016

Overview

Moxa's new Controller Area Network (CAN) interface board solutions incorporate boards that support the Universal PCI interface, PCI Express interface, and PC/104-Plus interface. Because Moxa develops CAN FPGA (SJA 1000 compatible), the CP-602U-I, CP-602E-I, and CB-602I boards are cost-effective solutions. Each active CAN interface board has two CAN ports. These CAN interface boards use the transceiver TCAN1044, which provides bus arbitration and error detection. In addition, all series support wide temperature solutions and have 2 kV of isolation protection built in, making the boards suitable for harsh industrial environments.

The CAN interface board series includes the following models:

CP-602U-I: 2-port CAN 2.0 A/B and CAN FD interface Universal PCI board with isolation protection, 0 to 55°C operating temperature.

CP-602U-I-T: 2-port CAN 2.0 A/B and CAN FD interface Universal PCI board with isolation protection, -40 to 85°C operating temperature.

CP-602E-I: 2-port CAN 2.0 A/B and CAN FD interface PCI Express board with isolation protection, 0 to 55°C operating temperature.

CP-602E-I-T: 2-port CAN 2.0 A/B and CAN FD interface PCI Express board with isolation protection, -40 to 85°C operating temperature.

CB-602I: 2-port CAN 2.0 A/B and CAN FD interface PC/104-Plus module with isolation protection, 0 to 55°C operating temperature.

CB-602I-T: 2-port CAN 2.0 A/B and CAN FD interface PC/104-Plus module with isolation protection, -40 to 85°C operating temperature.

Package Checklist

Your CAN interface board package includes the following items:

- CP-602U-I: Universal PCI Board with standard bracket, or
  CB-602I: PC/104-Plus Module, or
  CP-602E-I: PCI Express Board with standard bracket
- Quick installation guide (printed)
- Warranty card

NOTE Notify your sales representative if any of the above items are missing or damaged.

Software Installation Information

1. Get the driver at www.moxa.com. Based on the OS type, choose the corresponding driver.
2. Installing the driver:
   - For Windows OS (take the installation of Win11 as an example)
     - Unzip and execute the .exe file
     - Follow the instructions to install the drivers
   - For Linux
     To simplify the processes, we provided a single step to build, install, and load the MOXA driver.
     - Untar the file
       # tar -zxvf driv_linux_CAN_<version>_build_<build_date>.tgz
     - Execute the ./mxinstall in ./mxcan to start using the product.
       # ./mxinstall

Connecting the Hardware

After installing the driver, power off the PC, plug the Moxa CAN interface board into any empty slot, and power it on.

Specifications

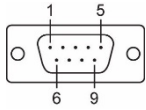
Hardware	
CAN Controller	Moxa-developed CAN FPGA (SJA 1000 compatible)
CAN Transceiver	TCAN1044
CAN Specification	CAN 2.0A/B, CAN FD
Signal Support	CAN_H, CAN_L, GND
Board Interface	CP-602U-I: Universal PCI CB-602I: PC/104-Plus bus module CP-602E-I: PCI Express x 1
Connectors	CP-602U-I/CP-602E-I: DB9 male CB-602I: 20-pin box header
Ports	2
Transfer rate	CAN 2.0 A/B: up to 1 Mbps CAN FD: up to 5 Mbps
Termination Resistor	120 ohms (selected by jumper)
Max. Module Support	4 pcs
Isolation	2 kV
Software	
Operating Systems and Library	Refer to the product website or datasheet for details
Physical Characteristics	
Dimensions (without brackets)	CP-602U-I: 120 x 80 mm (4.72 x 3.15 in) CB-602I: 90 x 96 mm (3.54 x 3.78 in) CP-602E-I: 100 x 85 mm (3.94 x 3.35 in)
Environment Limits	
Humidity (Operating)	5 to 95% RH

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)
Regulatory Approvals	EN 55032, EN 55035, 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, FCC Part 15 Class B
Warranty	
Warranty period	5 years
Details	See www.moxa.com/warranty

Pin Assignments

DB9 Male Pinouts

Pin	Signal
2	CAN_L
3	CAN_GND
5	Shield
6	CAN_GND
7	CAN_H



20-pin Box Header Pinouts

Pin	Signal
3	CAN0_L
4	CAN0_H
5	CAN_GND
9	Shield
13	CAN1_L
14	CAN1_H
15	CAN_GND
19	Shield

