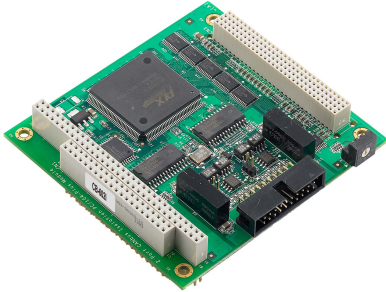# CB-602I Series

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

Features and Benefits

• Supports CAN 2.0A and CAN 2.0B

• 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

Certifications

CE FC

Introduction

Moxa's CB-602I CAN (Controller Area Network) interface boards support the PC/104-Plus interface. Optional DB9 and DB25 connection cables are available for connecting to CAN interface devices. The CB-602I CAN interface boards use the NXP SJA1000 and PCA82C251 transceiver, which provide 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

Serial Interface

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

CAN Interface

Baudrate	10/20/50/125/250/500/800/1000 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 55032/24
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 DIPs

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 document and software CD 1 x substance disclosure table 1 x warranty card

Dimensions

Unit: mm (inch)
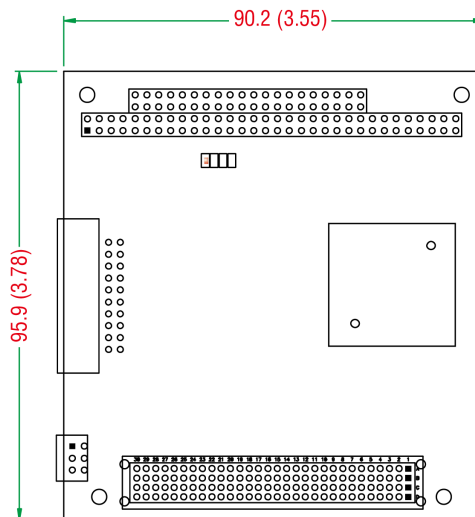
Ordering Information

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	2	2 kV	0 to 55°C
CB-602I-T w/o Cable	PC/104-Plus	CAN 2.0 A/B	2	2 kV	-40 to 85°C

MOXA
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Accessories (sold separately)

Cables

CBL-F20M9x2-50	F20 to 2 x DB9 male cable, 50 cm
CBL-F20M25x2-50	F20 to 2 x DB25 male cable, 50 cm

CP-602E-I Series

2-port CAN interface PCI Express boards with 2 kV isolation

Features and Benefits

- Supports CAN 2.0A and CAN 2.0B
- 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 driver provided

Certifications

CE FC

Introduction

Moxa'sCP-602E-I CAN (Controller Area Network) interface board supports the PCI Express interface. As a standalone CAN controller, the CP-602E-I is a cost-effective solution that provides two active CAN controllers with a DB9 connector on the same board. The CP-602E-I CAN interface board uses the NXP SJA1000 and transceiver PCA82C251, which provide bus arbitration and error detection. The -40 to 85°C wide operating temperature (CP-602E-I-T only) and 2 kV isolation make the boards suitable for use in harsh industrial environments.

Specifications

CAN Interface

Baudrate	10/20/50/125/250/500/800/1000 kbps, user-defined
Connector	DB9 male
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 55032/24
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 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 DIPs

MOXA
Reliable Networks ▲ Sincere Service

Declaration

Green Product	RoHS, CRoHS, WEEE

MTBF

Time	4,645,502 hrs
Standards	Telcordia SR332

Warranty

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

Package Contents

Device	1 x CP-602E-I Series serial board
Documentation	1 x document and software CD 1 x substance disclosure table 1 x warranty card

Dimensions

Unit: mm (inch)
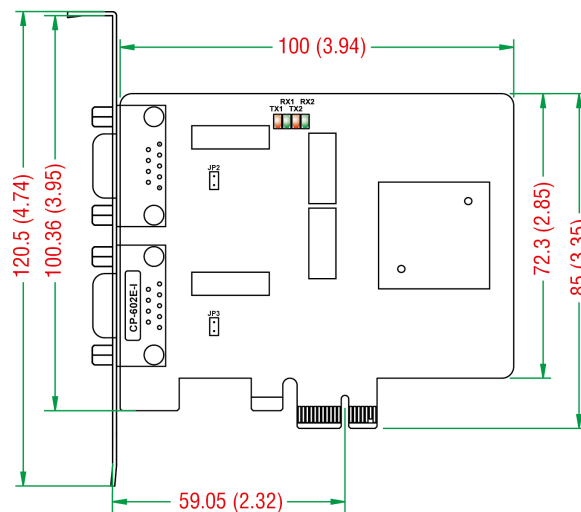
Ordering Information

Model Name	Serial Bus	CAN Specification	No. of Serial Ports	Serial Isolation Protection	Operating Temp.
CP-602E-I w/o Cable	PCI Express	CAN 2.0 A/B	2	2 kV	0 to 55°C
CP-602E-I-T w/o Cable	PCI Express	CAN 2.0 A/B	2	2 kV	-40 to 85°C

Accessories (sold separately)

Connectors

Mini DB9F-to-TB	DB9 female to terminal block connector

Cables

CBL-F9M9-20	DB9 female to DB9 male serial cable, 20 cm
CBL-F9M9-150	DB9 female to DB9 male serial cable, 1.5 m

www.moxa.com

CP-602U-I Series

2-port CAN interface Universal PCI boards with 2 kV isolation

Features and Benefits

- Supports CAN 2.0A and CAN 2.0B
- 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 driver provided

Certifications

Introduction

Moxa's CP-602U-I CAN (Controller Area Network) interface board supports the Universal PCI interface. As a standalone CAN controller, the CP-602U-I is a cost-effective solution that provides two active CAN controllers with a DB9 connector on the same board. The CP-602U-I CAN interface board uses the NXP SJA1000 and transceiver PCA82C251, which provide bus arbitration and error detection. The -40 to 85°C wide operating temperature (CP-602U-I-T only) and 2 kV isolation make the boards suitable for use in harsh industrial environments.

Specifications

CAN Interface

Baudrate	10/20/50/125/250/500/800/1000 kbps, user-defined
Connector	DB9 male
No. of Ports	2

Environmental Limits

Operating Temperature	CP-602U-I w/o Cable: 0 to 55°C (32 to 131°F) CP-602U-I-T w/o Cable: -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 55032/24
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; Signal: 0.5 kV IEC 61000-4-5 Surge: Power: 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 DIPs

Declaration

Green Product	RoHS, CRoHS, WEEE

MTBF

Time	1,989,990 hrs
Standards	Telcordia SR332

Warranty

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

Package Contents

Device	1 x CP-602U-I Series serial board
Documentation	1 x document and software CD 1 x substance disclosure table 1 x warranty card

Dimensions

Unit: mm (inch)
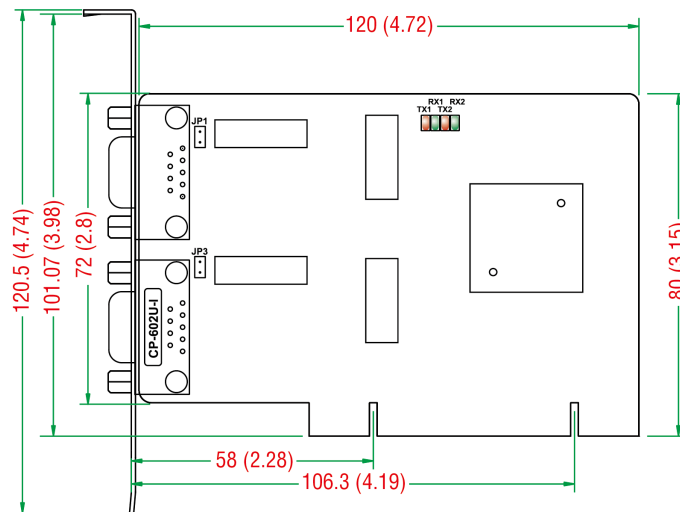
Ordering Information

Model Name	Serial Bus	CAN Specification	No. of Serial Ports	Serial Isolation Protection	Operating Temp.
CP-602U-I w/o Cable	Universal PCI	CAN 2.0 A/B	2	2 kV	0 to 55°C
CP-602U-I-T w/o Cable	Universal PCI	CAN 2.0 A/B	2	2 kV	-40 to 85°C

Accessories (sold separately)

Connectors

Mini DB9F-to-TB	DB9 female to terminal block connector

Cables

CBL-F9M9-20	DB9 female to DB9 male serial cable, 20 cm
CBL-F9M9-150	DB9 female to DB9 male serial cable, 1.5 m

www.moxa.com