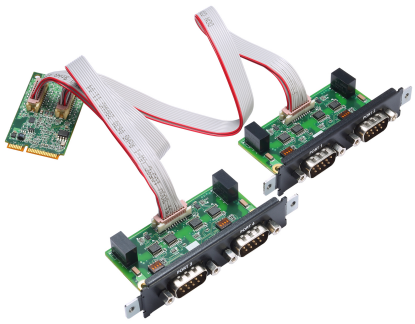
CP-134N Series

4-port RS-422/485 Mini PCI Express boards



Features and Benefits

- PCI Express 1.0 bus support
- 921.6 kbps maximum baudrate for fast data transmission
- 128-byte FIFO and on-chip H/W, S/W flow control
- 1 or 150 kilo-ohm adjustable pull high/low resistor
- Drivers provided for a broad selection of operating systems, including Windows and Linux
- DIP switch for 120-ohm terminal resistance

Certifications

Introduction

The CP-134N is a Mini PCI Express multiport serial board is designed for various applications and users such as system integrators, and industrial automation system and industrial PC manufacturers. It is compatible with all popular operating systems and supports data rates of up to 921.6 kbps.

The serial board also provides 1 kV line-to-line surge protection and 2.5 kV isolation, ensuring compatibility with a wide range of industrial environments. Furthermore, it also includes a DIP switch for easily adjusting the terminal and pull-high/low resistors for various environments and applications.

A New Family of Mini PCI Express Multiport Serial Boards for Faster Time to Market

Moxa's new Mini PCI Express multiport serial board family fulfills the need for customized expansion and enables faster time to market for OEMs and system integrators. It includes Isolated and non-Isolated RS-232/422/485 communication cards for various applications.

The serial boards feature high performance 16C950 compatible UARTs and are available in 4-port and 2-port versions compatible with all popular operating systems. They support data rates of up to 921.6 kbps and have 128-byte transmit and receive FIFOs. The serial boards can operate in the -40 to 85°C temperature range. Door backets are included in the package for all models, enabling the installation of the serial boards in a Moxa IPC expansion slot.

Specifications

Serial Interface

Comm. Controller	16C550C compatible
Bus	PCI Express 1.0
Connector	DB9 male
FIFO	128 bytes
No. of Ports	4
Serial Standards	RS-422 RS-485
Baudrate	50 bps to 921.6 kbps (supports non-standard baudrates)
Data Bits	5, 6, 7, 8
Stop Bits	1, 1.5, 2
Parity	None

	Even Odd Space Mark
Flow Control	None XON/XOFF
Isolation	CP-134N-I-T: 2.5 kV

Serial Signals

RS-422	Tx+, Tx-, Rx+, Rx-, GND
RS-485-4w	Tx+, Tx-, Rx+, Rx-, GND
RS-485-2w	Data+, Data-, GND

Serial Software Features

Windows Drivers	Windows 11/10/8.1/8/7 Windows Server 2025/2022/2019/2016/2012 R2/2012/2008 R2
Linux Drivers	Linux kernel 7.x/6.x/5.x/4.x

Power Parameters

Input Current	714 mA @ 3.3 VDC

Physical Characteristics

Dimensions	30 x 50.95 mm (1.18 x 2 in)

Environmental Limits

Operating Temperature	-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; Signal: 0.5 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4-8 PFMF

Declaration

Green Product	RoHS, CRoHS, WEEE

MTBF

Time	2,412,169 hrs
Standards	Telcordia (Bellcore) Standard TR/SR

Warranty

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

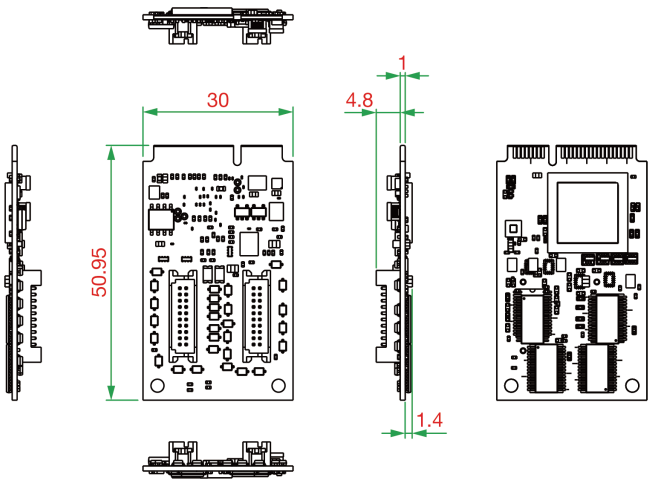
Package Contents

Device	1 x CP-134N Series serial board
Cable	2 x 20-pin female to 20-pin female serial cable, 25 cm
Installation Kit	Door/CP-100N Port12, Door/CP-100N Port34
Documentation	1 x quick installation guide 1 x warranty card

Dimensions

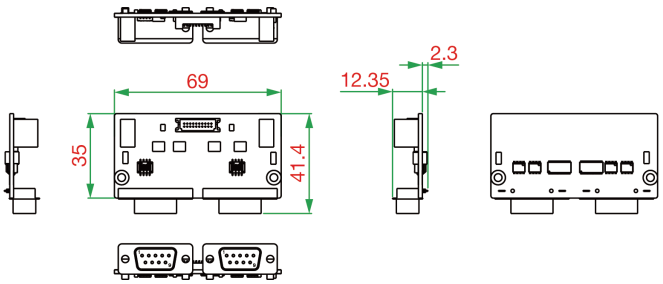
CP-134N-I-T

Unit: mm



CP-134N-I-T With IO

Unit: mm



Ordering Information

Model Name	Serial Standards	No. of Serial Ports	Serial Isolation Protection
CP-134N-T	RS-422/485	4	–
CP-134N-I-T	RS-422/485	4	2.5 kV

Accessories (sold separately)

Connectors

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

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