

CP-134N Series

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



Features and Benefits

- Mini PCIe interface 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 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 brackets 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 | Mini PCI Express |
| 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 | 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 7/8/8.1/10/11 (x86/x64), Windows 2008 R2/2012/2012 R2/2016/2019 (x64), Windows Server 2022 |
| Linux Drivers | Linux kernel 4.x Linux kernel 5.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) | -20 to 85°C (-4 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 |

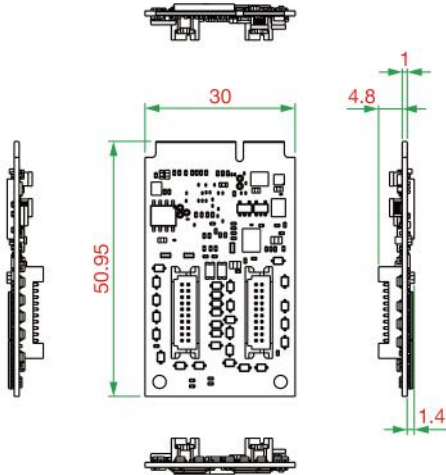
Package Contents

| | |
|------------------|--|
| 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

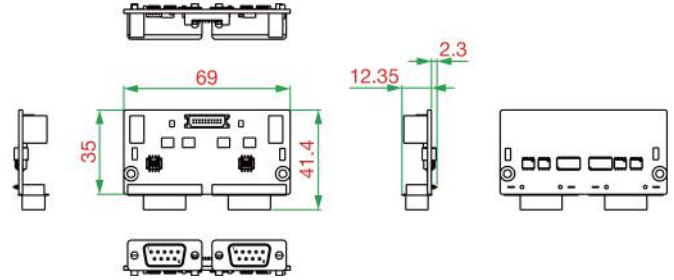
CP-134N-I-T

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-I-T | RS-422/485 | 4 | 2.5 kV |

Accessories (sold separately)

Cables

| | |
|----------------|--|
| CBL-HSF2x10-15 | 20-pin female to 20-pin female serial cable, 15 cm |
|----------------|--|

Connectors

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

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