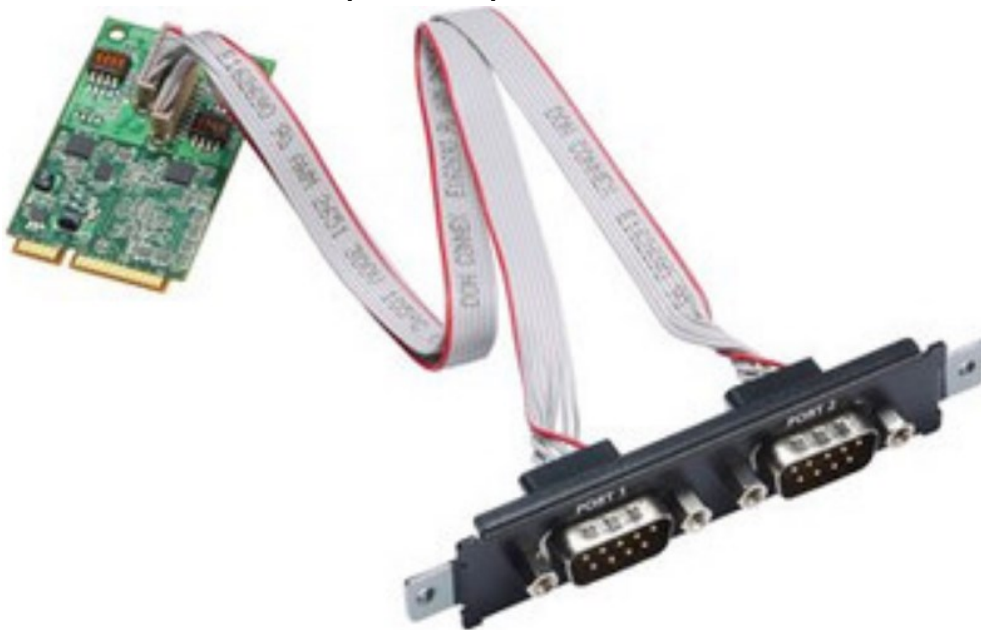




# MOXA CP-132N-I-T Mini PCI Express Multiport Serial Board Series Installation Guide

[Home](#) » [MOXA](#) » MOXA CP-132N-I-T Mini PCI Express Multiport Serial Board Series Installation Guide 

## MOXA CP-132N-I-T Mini PCI Express Multiport Serial Board Series Installation Guide



### Contents

- [1 Overview](#)
- [2 Package Checklist](#)
- [3 Hardware Installation Procedure](#)
- [4 Software Installation Information](#)
- [5 Documents / Resources](#)
  - [5.1 References](#)
- [6 Related Posts](#)

## Overview

Moxa's new Mini PCI Express Multiport Serial Boards Series fulfills a customized expansion need and provides a faster response to market. We have designed the Mini PCI Express multiport serial boards for use by industrial automation system manufacturers, system integrators, and industrial PC makers. Moxa's Mini PCIe Express Multiport Serial Boards CP-100N Series includes the following models.

Model Name	Description
CP-102N-T	2-port RS-232 Mini PCI Express serial board
CP-102N-I-T	2-port RS-232 Mini PCI Express serial board with 2.5 kVcapacitive isolation
CP-132N-T	2-port RS-422/485 Mini PCI Express serial board
CP-132N-I-T	2-port RS-422/485 Mini PCI Express serial board with2.5 kV capacitive isolation
CP-104N-T	4-port RS-232 Mini PCI Express serial board
CP-104N-I-T	4-port RS-232 Mini PCI Express serial board with 2.5 kVcapacitive isolation
CP-134N-I-T	4-port RS-422/485 Mini PCI Express serial board with2.5 kV capacitive isolation
CP-114N-T	4-port RS-232/422/485 Mini PCI Express serial board

## Package Checklist

Before installing the Mini PCI Express board, verify the package contains the following items:

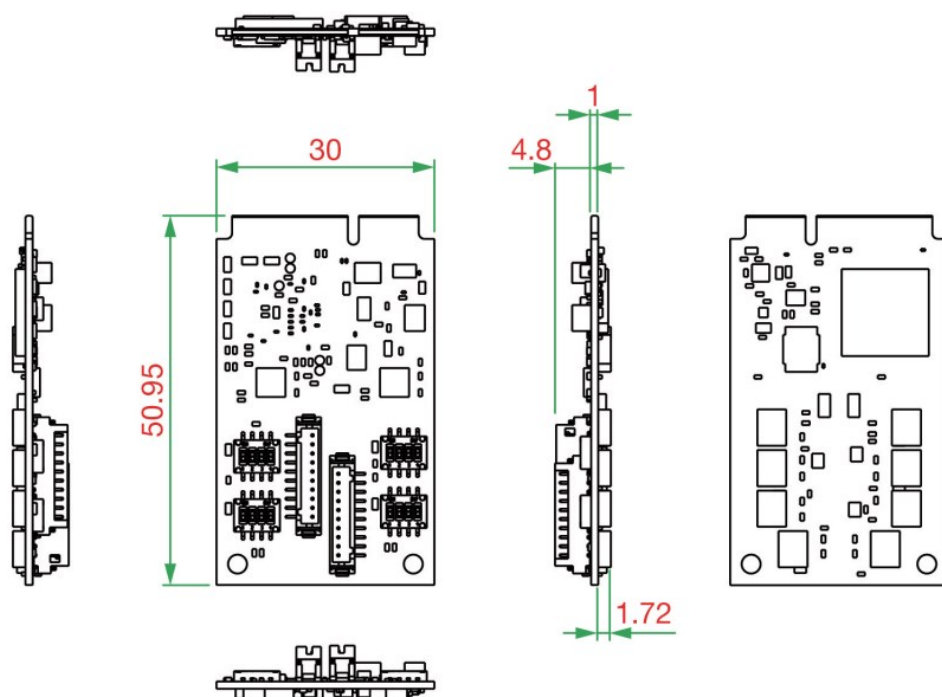
- Moxa Mini PCI Express multi-serial board (CP-104N-I-T, CP-134N IT, CP-114N-T models have the main board and I/O boards)
- Moxa DB9 brackets
- Internal connection cable 25 cm
- Quick installation guide (printed)
- Warranty card

**NOTE** The cable type, cable volume, and DB9 bracket volume might differ for different product models. Notify your sales representative if any of the above items are missing or damaged

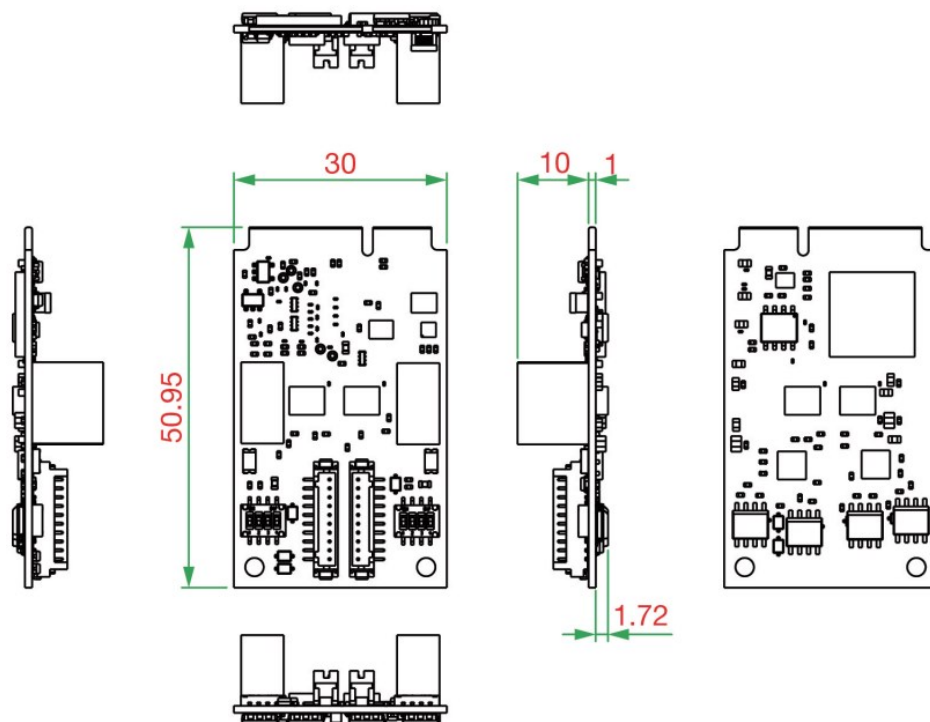
## Optional Accessories

Model	Description	Suitable models
CBL-M9HSF1x10H-15-01	10-pin female to 1 DB9 male serial cable, 15 cm	CP-102N-I-T CP-132N-I-T
CBL-M9HSF1x10H-15-02	10-pin female to 1 DB9male serial cable, 15 cm	CP-102N-TCP-132N-T
CBL-M9x2HSF2x10H-15	20-pin female to 2 DB9 male serial cable, 15 cm	CP-104N-T
CBL-HSF2x10-15	20-pin female to 20-pin female serial cable, 15 cm	CP-104N-I-T CP-134N-I-T CP-114N-T

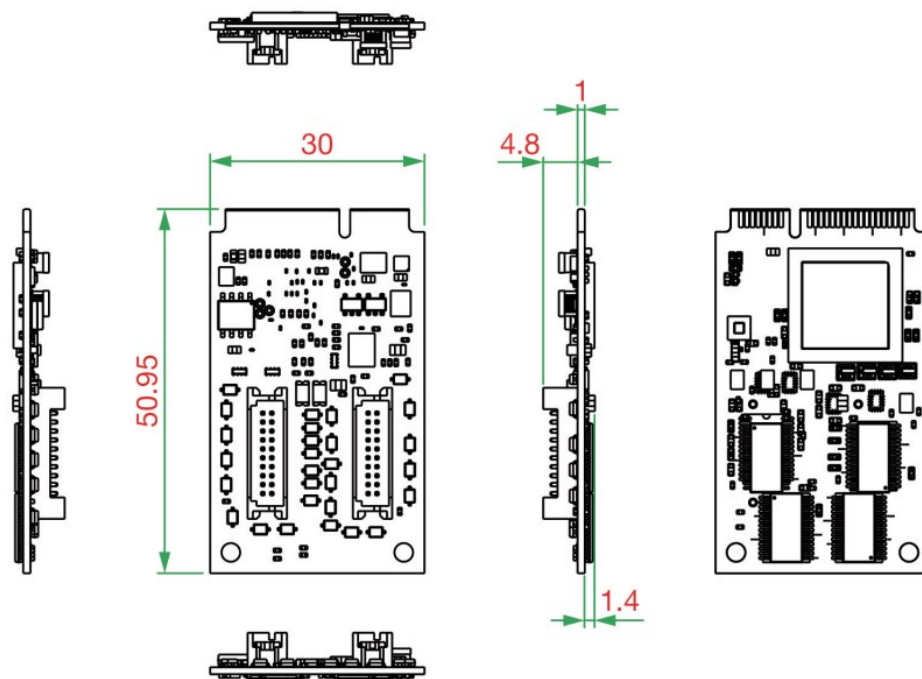
## Mechanical Drawing



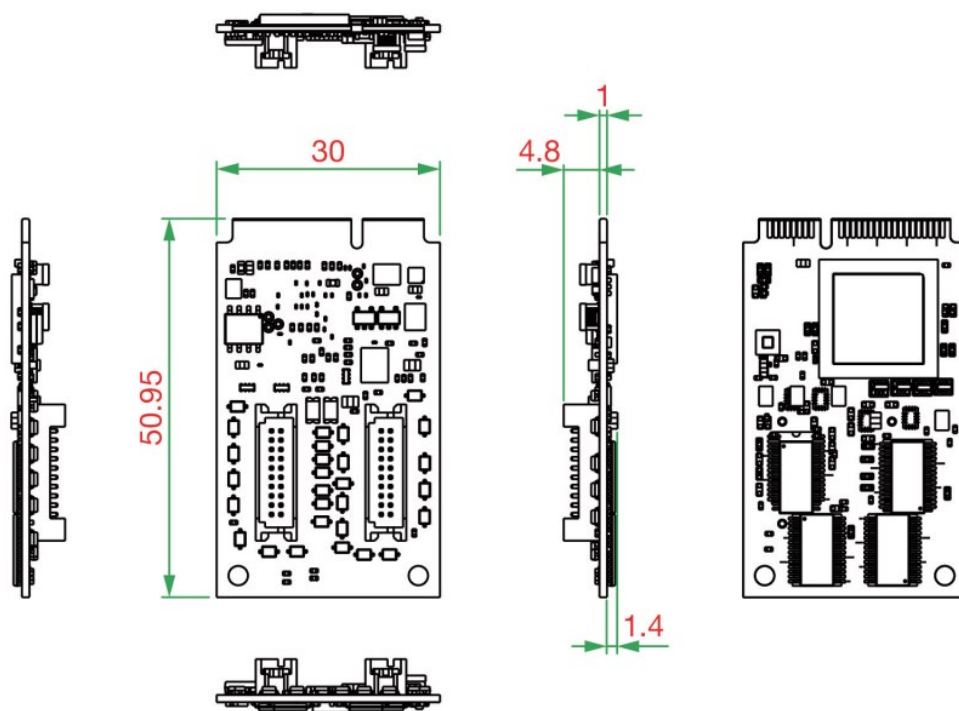
CP-102N-I-T/CP-132N-I-T



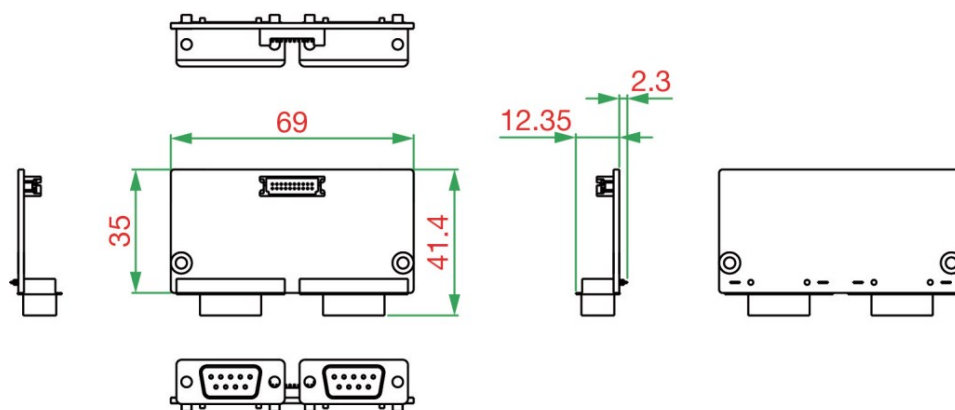
CP-104N-T



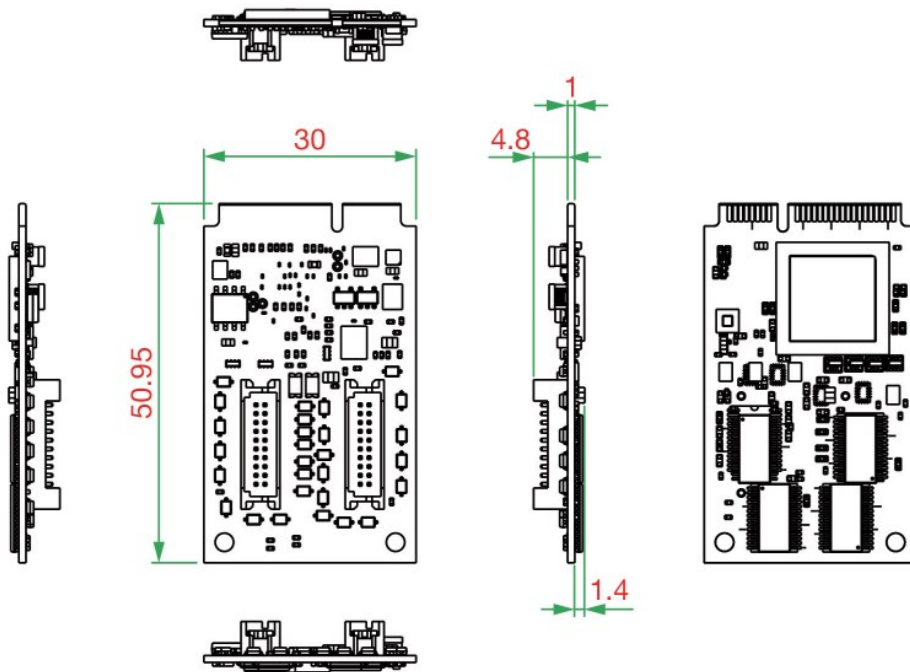
Mainboard Dimensions (Mini PCIe)



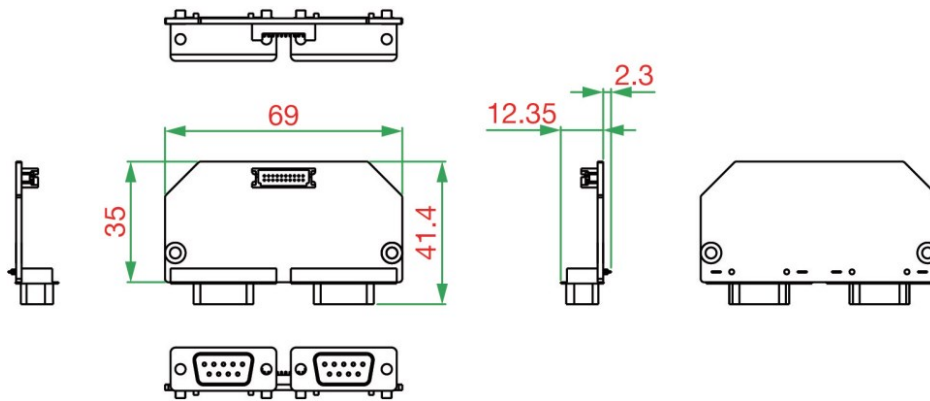
## Board Dimensions



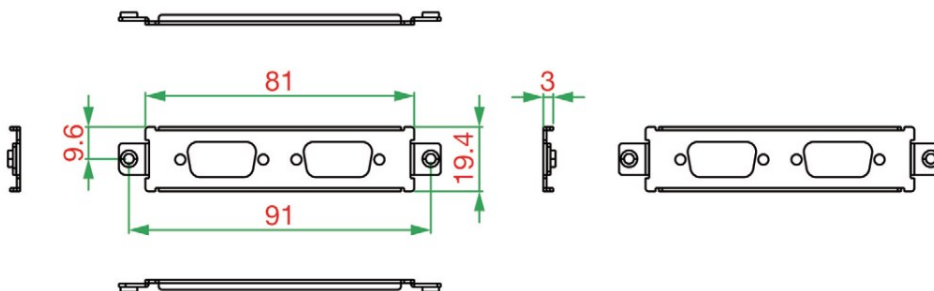
## Mainboard Dimensions (Mini PCIe)



### I/O Board Dimensions



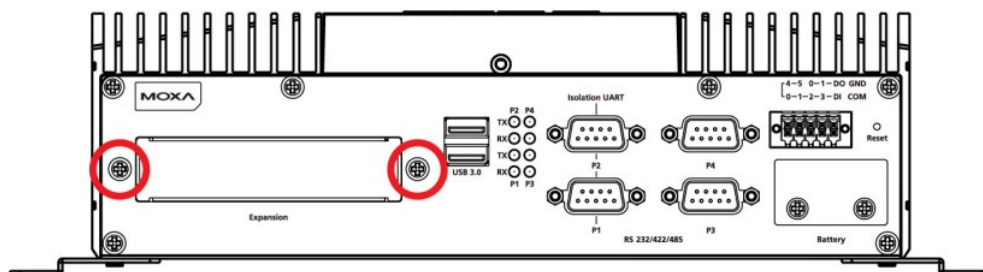
### Bracket Size



### Hardware Installation Procedure

The Mini PCI Express board must be plugged into the PC before installing the driver. The following steps show how to install the Moxa Mini PCI express cards.

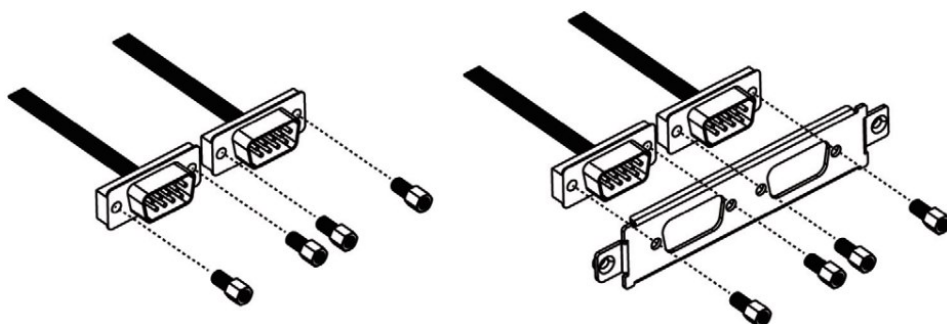
1. Find the Mini PCIe slot in your computer.
2. Insert the Mini PCIe multiport serial board and lock the screws.
3. Unscrew to remove the blank expansion plate. (We use Moxa V2406C as an example.)



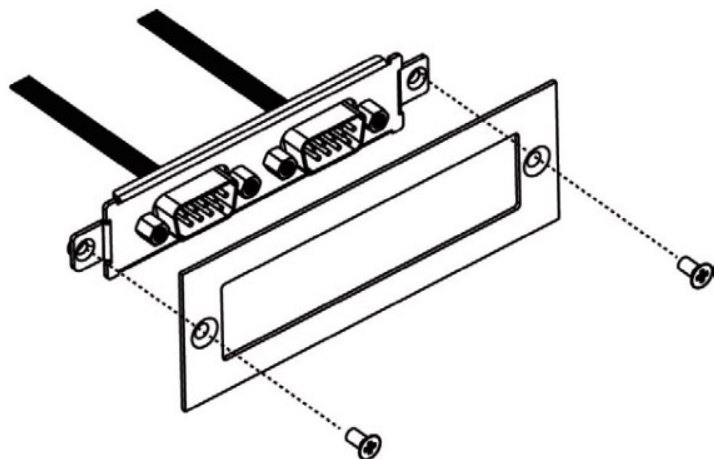
**NOTE** Moxa Mini PCIe multiport serial boards are suitable for Moxa's IPC models that have mini PCIe interfaces and expansion slots, such as the MC-7400 Series, V2403C Series, and V2406C Series. The bracket size matches the expansion slot dimensions of the IPC models.

**For the models (CP-102N-T, CP-102N-I-T, CP-132N-T, CP-132NI-T, CP 104N-T) without I/O boards.**

Unscrew the hexagonal copper pillars on the cable (DB9 Connector) and use them to connect the provided cables with the bracket.



Insert the plate through the blank expansion slot and lock the screws.

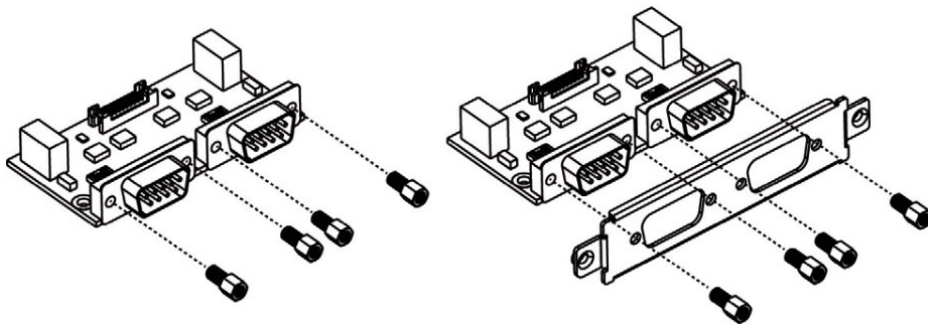


Connect the Mini PCIe multiport serial board with the cables

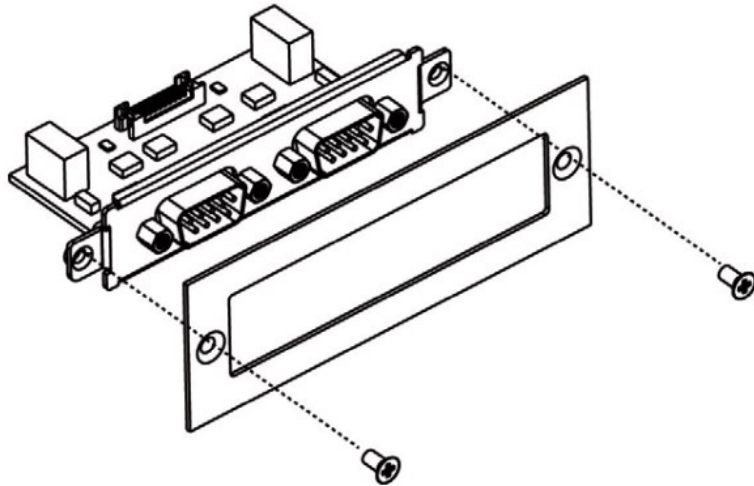
**For the models (CP-104N-I-T, CP-134N-I-T, CP-114N-T) with I/O boards.**

Unscrew the hexagonal copper pillars on the I/O board and lock the I/O board with the bracket.



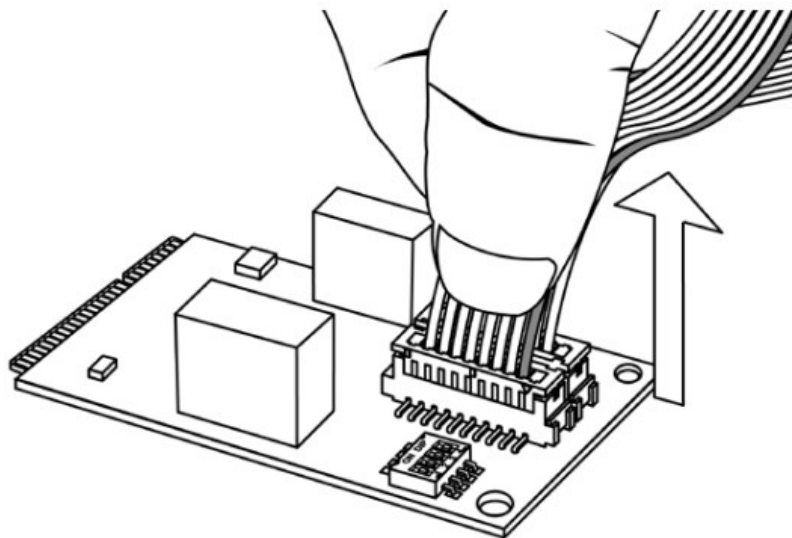


Insert the I/O board with the bracket through the blank plate hole and lock the screws.



Connect the I/O board to the Mini PCIe multiport serial board with the serial cables.

**NOTE** To pull out the internal connection cable safely from the boards, you should perpendicularly pull it out as shown in the image on the right. Also, pull out the cable gently.



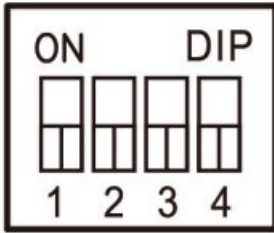
## Software Installation Information

1. Get the driver at [www.moxa.com](http://www.moxa.com). Based on the OS type, choose the corresponding driver.
2. Installing the driver:



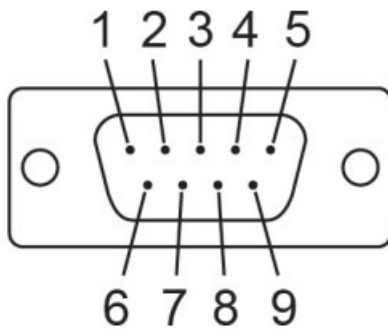
- For Windows OS (Take the installation of Win7 as an example)
- Unzip and execute the .exe file
- Follow the instructions to install the drivers
- For Linux Execute the following commands from the Linux prompt:
- Get the driver at [www.moxa.com](http://www.moxa.com) and unzip the file: `#cd / #mkdir moxa #cd moxa #cp //driv_linux_smart__build_.tgz. #tar -zxvf driv_linux_smart__build_.tgz`
- Install the driver: `#cd mxser #./mxinstall`

## DIP Switch Setting



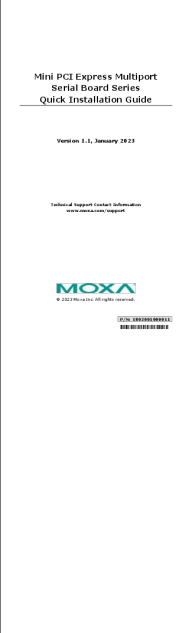
	On	OFF (Default)
SW1	Enable 120-ohm terminationresistor	Disable termination resistor
SW2	1K-ohm pull-high/low resistors	150K-ohm Pull-high/low resistors
SW3	Reserved for future feature	
SW4	Reserved for future feature	

## Pin Assignments



Pin	RS-232	RS-422/RS-485-4W	RS-485-2W
1	DCD	TxD- (A)	–
2	RxD	TxD- (B)	–
3	TxD	RxD+ (B)	Data+ (B)
4	DTR	RxD- (A)	Data- (A)
5	GND	GND	GND
6	DSR	–	–
7	RTS	–	–
8	CTS	–	–

## Documents / Resources

	<p><a href="#">MOXA CP-132N-I-T Mini PCI Express Multiport Serial Board Series</a> [pdf] Installation Guide CP-132N-I-T Mini PCI Express Multiport Serial Board Series, CP-132N-I-T, Mini PCI Express Multiport Serial Board Series, Multiport Serial Board Series, Board Series</p>
--	--

## References

- [Moxa - Your Trusted Partner in Automation](#)
- [Moxa - Support](#)