# **CP-104N Series**

# 4-port RS-232 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
- Drivers provided for a broad selection of operating systems, including Windows and Linux



## Introduction

The CP-104N is a Mini PCI Express multiport serial board designed for varies applications such as industrial automation system and industrial PC manufacturers. The CP-104N is compatible with any Mini PCI Express slot. The board requires only a 3.3 VDC power supply, which means it can work with host computers ranging from DIN-rail PCs to standard-sized PCs.

The CP-104N is a top choice of industrial automation engineers and system integrators and supports Windows and Linux operating systems. In addition, the four RS-232 serial ports support a fast 921.6 kbps baudrate. The CP-104N provides full-modem control signals to ensure compatibility with a wide range of serial peripherals. It also provides 1 kV line-to-line surge protection and 2.5 kV isolation (for the I model), ensuring compatibility in a wide range of industrial environments.

#### 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	Mini PCI Express
Connector	DB9 male
FIFO	128 bytes
No. of Ports	4
Serial Standards	RS-232
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



Fixed Control     None, HTS/CTS, XDN/XOFF       Isolation     2.5 M/ (madebia)       Serial Signals     Independent of the serial control of the series of the serial control of the series of			
Immedies)       Serial Signals       RS-232     TxD, RXD, RTS, CTS, DTR, DSR, DCD, GND       Serial Software Features     Windows 2008 R2/2012/2012 R2/2018/2019 (x84),       Windows Drivers     Linux kernel 4.x, Linux kernel 5.x       Power     Derivers       Innux Drivers     CP-104N-T: 355 mA 8 3.3 VDC       Power     Op-104N-T: 615 mA 6 3.3 VDC       Physical Characteristics     CP-104N-T: 615 mA 6 3.3 VDC       Physical Characteristics     0       Operating Temperature     4010 85°C (-40 to 185°F)       Storage Temperature (package included)     -20 to 55°C (-40 to 185°F)       Ambient Belative Humidity     510 95% (non-condensing)       Standards and Certifications     ED 5000-42 ESD: condicate 4W.A Hr.8 W       EMS     ED 5000-42 ESD: condicate 4W.A Hr.8 W       ED 5000-42 ESD: condicate 4W.A Hr.8 W     ED 5000-42 ESD: condicate 4W.A Hr.8 W       ED 5000-42 ESD: condicate 4W.A Hr.8 W     ED 5000-42 ESD: condicate 4W.A Hr.8 W       ED 5000-42 ESD: condicate 4W.A Hr.8 W     ED 5000-42 ESD: condicate 4W.A Hr.8 W       ED 5000-42 ESD: condicate 4W.A Hr.8 W     ED 5000-42 ESD: condicate 4W.A Hr.8 W       ED 5000-42 ESD: condicate 4W.A Hr.8 W     ED 5000-40 EST: Spinal: 1.4 U	Flow Control	None, RTS/CTS, XON/XOFF	
RB-222 Tx.D. RxD. RTS. CTS. DTR. DSR. DCD. GND   Serial Software Features Windows 7/9/8.1/10/11 (s80/x64), Windows 2008 R2/2012/2012 R2/2016/2019 (x64), Windows 2008 R2/2012/2012 R2/2016/R2/2019 R2/2012 R2/2016/R2/2019 R2/2012 R2/2016/R2/2019 R2/2012	Isolation		
Serial Software Features   Windows Drivers Windows 2008 R2/2012/2012 R2/2019/2019 (x64), Windows Server 2022   Linux Drivers Linux kernel 4.x, Linux kernel 5.x   Power Parameters Power 2022   Input Current CP-104N-T: 365 mA 8 3.3 VDC   Physical Characteristics Dimensions   Dimensions 30 x 50.95 mm (1.18 x 2 in)   Environmental Limits -0 to 85°C (-40 to 185°F)   Operating Temperature (package included) -20 to 85°C (-40 to 185°F)   Ambient Relative Humidity 5 to 595% (non-condensing)   Storage Temperature (package included) -20 to 85°C (-41 to 185°F)   Ambient Relative Humidity 5 to 595% (non-condensing)   Standards and Certifications EN 55032/35   EMC EN 55032/35   EMS EC 61000-4-2 ESD: Contact: 4.W; Air: 8.W   EC 61000-4-2 ESD: Contact: 4.W; Xir: 8.W EC 61000-4-2 SD: Contact: 4.W; Xir: 8.W   EC 61000-4-2 SD: Contact: 4.W; Xir: 8.W EC 61000-4-2 SD: Contact: 4.W; Xir: 8.W   EC 61000-4-2 ESD: Contact: 4.W; Xir: 8.W EC 61000-4-2 SD: Contact: 4.W; Xir: 8.W   EC 61000-4-2 SD: Contact: 4.W; Xir: 8.W EC 61000-4-2 SD: Contact: 4.W; Xir: 8.W   EC 61000-4-2 SD: Contact: 4.W; Xir: 8.W EC 61000-4-2 SD: Contact: 4.W; Xir: 8.W   EC 61000-4-2 SD: Contact: 4.W; Xir: 8.W EC 61000-4-2 SD: Contact: 4.W; Xir: 8.W   EC 61000-	Serial Signals		
Windows Drivers   Windows 2008 R2/2012/2012 R2/2014/2019 (x64),     Windows Drivers   Linux kernel 4.x, Linux kernel 5.x     Power Parameters   Power Parameters     Input Current   CP-104N-T: 385 mA 8: 3.3 VDC     Physical Characteristics   Dimensions     Dimensions   30 x 50.95 mM (1.18 x 2 in)     Environmental Limits   -40 to 85°C (-40 to 185°F)     Operating Temperature (package included)   -20 to 85°C (-40 to 185°F)     Storage Temperature (package included)   -20 to 85°C (-40 to 185°F)     Storage Temperature (package included)   -20 to 85°C (-40 to 185°F)     Storage Temperature (package included)   -20 to 85°C (-40 to 185°F)     Storage Temperature (package included)   -20 to 85°C (-40 to 185°F)     Storage Temperature (package included)   -20 to 85°C (-40 to 185°F)     Storage Temperature (package included)   -20 to 85°C (-40 to 185°F)     Storage Temperature (package included)   -20 to 85°C (-40 to 185°F)     Storage Temperature (package included)   -20 to 85°C (-40 to 185°F)     Storage Temperature (package included)   -20 to 85°C (-40 to 185°F)     Storage Temperature (package included)   -20 to 85°C (-40 to 185°F)     Storage Temperature (package includede)   E0 to 650°C (-4 to 185°F) </td <td>RS-232</td> <td colspan="2">TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND</td>	RS-232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND	
Linux Drivers     Linux kemel 4.x, Linux kemel 5.x       Power Parameters     CP-104N-T: 365 mA @ 3.3 VDC CP-104N-T: 615 mA @ 3.3 VDC CP-104N-T: 61	Serial Software Features		
Power Parameters       Input Current     CP-104N-T: 365 mA @ 3.3 VDC CP-104N-T: 615 mA @ 3.3 VDC       Physical Characteristics     30 x 50.95 mm (1.18 x 2 in)       Dimensions     30 x 50.95 mm (1.18 x 2 in)       Environmental Limits     -40 to 85°C (-40 to 185°F)       Operating Temperature (package included)     -20 to 85°C (-4 to 185°F)       Ambient Relative Humidity     5 to 95% (non-condensing)       Storage Temperature (package included)     -20 to 85°C (-4 to 185°F)       Ambient Relative Humidity     5 to 95% (non-condensing)       Standards and Certifications     EN       EMC     EN 56032/36       EMI     CISPR 32, FCC Part 15B Class A       EMS     IEC 61000-42 E ESD: Contact: 4 kV; Air 8 kV IEC 61000-42 E FLO ververt 1Vs Signal: 5 kV IEC 61000-42 E FLO ververt 1Vs Signal: 3 V/m IEC 61000-42 E ST.50 KHZ to 0 KHZ 3 V/m; Signal: 3 V/m       Declaration     CP-104N-T: 3, 673,087 hrs CP-104N-T: 2, 189,472 hrs       Standards     Telcordia (Belicore) Standard TR/SR       MTBF     CP-104N-T: 2, 189,472 hrs       Yaranty     See www.moxa.com/warranty       Warranty     See www.moxa.com/warranty       Yarant	Windows Drivers		
Input Current     CP-104N-1: 365 mA @ 3.3 VDC CP-104N-1: 615 mA @ 3.3 VDC       Physical Characteristics     30 x 50.95 mm (1.18 x 2 in)       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 (-40 to 185°F)       Ambient Relative Humidity     5 to 95% (non-condensing)       Standards and Cartifications     -       EMC     EN 65032/36       EMI     CISPR 32, FCC Part 15B Class A       EMS     LEC 61000-42 ESD: Contact: 41V, Air: 8 kV LEC 61000-43 ESD: Ware: 10 V/3 Wing	Linux Drivers	Linux kernel 4.x, Linux kernel 5.x	
CP-104N-I-T: 615 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 (-40 to 185°F)     Ambient Relative Humidity   5 to 95% (non-condensing)     Standards and Certifications   EMC     EMC   EN 55032/35     EMI   ClSPR 32, FCC Part 15B Class A     EMS   E0004-4.2 ESD: Contact: 4 1V, Air: 8 kV IEC 61000-4.3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4.4 SRS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4.4 SRS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4 SS upper Nower: 2 kV Signal: 1.5 KV IEC 61000-4	Power Parameters		
Dimensions     30 x 50.35 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       EMC     EN 55032/36       EMI     CISPR 32, FCC Part 15B Class A       EMS     EIC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-4 SI; 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 SI; 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 SI; 80 MHz to 1 GHz: 3 V/m; Signai: 0.5 kV IEC 61000-4-4 SI; 80 MHz to 1 GHz: 3 V/m; Signai: 3 V/m IEC 61000-4-4 SI; 80 MHz to 1 GHz: 3 V/m; Signai: 3 V/m IEC 61000-4-4 SI; 80 MHz to 1 GHZ: 3 V/m; Signai: 3 V/m       Declaration     CP-104N-T: 3.673,087 hrs CP-104N-T: 2,189,472 hrs       Standards     Telcordia (Belicore) Standard TR/SR       MTBF     CP-104N-T: 3.673,087 hrs CP-104N-T: 2,189,472 hrs       Standards     Telcordia (Belicore) Standard TR/SR       Warranty     See www.moxa.com/warranty       Warranty     See www.moxa.com/warranty       Details     See www.moxa.com/warranty       Device     1 x CP-104N Sries serial board       Gable     CP104N-T: 2 x 20-pin female to 2 DB9 male serial cables, 25 cm	Input Current		
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     EM       EMC     EN 55032/35       EMI     CISPR 32, FCC Part 15B Class A       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 SS: 90 MHz to 1 GHz: 3 V/m IEC 61000-4-4 SS: 90 MHz to 1 GHz: 3 V/m IEC 61000-4-4 SS: 90 MHz to 1 GHz: 3 V/m IEC 61000-4-4 SS: 90 MHz to 1 GHz: 3 V/m IEC 61000-4-4 SS: 90 MHz to 1 GHz: 3 V/m; Signal: 3 V/m IEC 61000-4-4 SS: 90 Hz to 80 MHz: 3 V/m; Signal: 3 V/m       Declaration     Green Product       ROHS, CROHS, WEEE     MTBF       Time     CP-104N-T: 3,673,087 hrs CP-104N-T: 2,189,472 hrs       Standards     Telcordia (Belicore) Standard TR/SR       Warranty     Years       Warranty     See www.moxa.com/warranty       Warranty Period     5 years       Details     See www.moxa.com/warranty       Package Contents     Yen 104 Series serial board       Device     1 x CP-104N Series serial board	Physical Characteristics		
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     EMC   EN 55032/35     EMI   CISPR 32, FCC Part 15B Class A     EMS   LEC 61000-4-2 ESD: Contact: 4 W; Air. 8 kV IEC 61000-4-2 ESD: Contact: 4 W; Air. 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-6 CS: 150 KHz to 60 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4-6 CS: 150 KHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4-6 CS: 150 KHz to 80 MHz: 3 V/m; Signal: 3 V/m     Declaration   CP-104N-T: 3,673,087 hrs CP-104NH-T: 2,189,472 hrs     Time   CP-104N-T: 3,673,087 hrs CP-104NH-T: 2,189,472 hrs     Standards   Telcordia (Bellcore) Standard TR/SR     Warranty   S years     Optalis   S years     Details   See www.moxa.com/warranty     Package Contents   S years     Device   1 x CP-104N Series serial board	Dimensions	30 x 50.95 mm (1.18 x 2 in)	
Storage Temperature (package included)   -20 to 85°C (-4 to 185°F)     Ambient Relative Humidity   5 to 95% (non-condensing)     Standards and Certifications   EMC     EMC   EN 55032/35     EMI   CISPR 32, FCC Part 15B Class A     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 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 ST: Power: 1 kV; Signat: 0.6 kV IEC 61000-4-6 S; 150 kHz to 80 MHz: 3 V/m; Signat: 3 V/m     Declaration   RoHS, CROHS, WEEE     MTBF   CP-104N-T: 3,673,087 hrs CP-104N-T: 2,189,472 hrs     Standards   Telcordia (Bellcore) Standard TR/SR     Warranty   See www.moxa.com/warranty     Warranty Period   5 years     Details   See www.moxa.com/warranty     Package Contents   CP-104N-T: 2 x 20-pin female to 2 DB9 male serial cables, 25 cm	Environmental Limits		
Ambient Relative Humidity   5 to 95% (non-condensing)     Standards and Certifications     EMC   EN 55032/35     EMI   CISPR 32, FCC Part 15B Class A     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 61000-4.4 EFT: Power: 2 kV; Signal: 1 kV IEC 61000-4.6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4.6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m     Declaration   RoHS, CRoHS, WEEE     MTBF   CP-104N-T: 3,673,087 hrs CP-104N-I-T: 2,189,472 hrs     Standards   Telcordia (Bellcore) Standard TR/SR     Warranty   See www.moxa.com/warranty     Package Contents   See www.moxa.com/warranty     Package Contents   1 x CP-104N Series serial board     Cable   CP-014N-T: 2 x 20-pin female to 2 DB9 male serial cables, 25 cm	Operating Temperature	-40 to 85°C (-40 to 185°F)	
Standards and Certifications     EMC   EN 5032/35     EMI   CISPR 32, FCC Part 15B Class A     EMS   IEC 61000-4-2 ESD: Contact: 4 KV; Air. 8 KV IEC 61000-4-2 ESD: Contact: 4 KV; Air. 8 KV IEC 61000-4-3 RF: 800 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 1 KV; Signal: 0.5 KV IEC 61000-4-4 EFT: Power: 1 KV; Signal: 0.5 KV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m     Declaration   RoHS, CROHS, WEEE     MTBF   Time     Time   CP-104N-T: 3,673,087 hrs CP-104N-T: 2,189,472 hrs     Standards   Telcordia (Bellcore) Standard TR/SR     Warranty   Varranty     Warranty   See www.moxa.com/warranty     Package Contents   See www.moxa.com/warranty     Device   1 x CP-104N Series serial board     Cable   CP-104N-T: 2 x 20-pin female to 2 DB9 male serial cables, 25 cm	Storage Temperature (package included)	-20 to 85°C (-4 to 185°F)	
EMCEN 55032/35EMICISPR 32, FCC Part 15B Class AEMSIEC 61000-4.2 ESD: Contact: 4 VX, Air: 8 VV IEC 61000-4.3 RS: 80 MHz to 1 0Hz to 1 3 Wm IEC 61000-4.3 ERS: 80 MHz to 1 0Hz to 1 5 WV IEC 61000-4.3 ERS: 80 MHz to 1 0Hz to 1 5 WV IEC 61000-4.4 EFT: Power: 1 KV; Signal: 0.5 KV IEC 61000-4.4 EFT: Power: 2 KV; Signal: 0.5 KV IEC 61000-4.4 EFT: Power: 2 KV; Signal: 3 V/m IEC 61000-4.5 CS: 150 MHz to 80 MHz to 3 V/m; Signal: 3 V/m IEC 61000-4.5 CS: 150 MHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4.5 CS: 150 MHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4.5 CS: 150 MHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4.5 CS: 150 MHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4.5 CS: 150 MHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4.5 CS: 150 MHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4.5 CS: 150 MHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4.5 CS: 150 MHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4.5 CS: 150 MHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4.5 CS: 150 MHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4.5 CS: 150 MHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4.5 CS: 150 MHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4.5 CS: 150 MHz to 80 MHz to 1 0Hz to 80 MHz to 80 MHz to 1 0Hz to 80 MHZ to	Ambient Relative Humidity	5 to 95% (non-condensing)	
EMICISPR 32, FCC Part 15B Class AEMSIEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 EST: 90 MHz to 1 4 kV; Air: 8 kV IEC 61000-4-4 EST: Power: 1 kV; Signal: 0.5 kV IEC 61000-4-4 EST: Power: 1 kV; Signal: 1 kV IEC 61000-4-4 EST: Power: 1 kV; Signal: 3 V/m IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4-8 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m; Signal: 3 V/m IEC 61000-4-8 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4-8 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-40 KS CP: 104N-I: 1: 2 X0/m; Signal: 3 KS IEC KS IEC KS IEC KS IEC KS IEC KS IEC KS IEC KS IEC KS<	Standards and Certifications		
EMSIEC 61000-4-2 ESD: Contact: 4 KV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-5 Surge: Power: 1 kV; Signal: 0.5 kV IEC 61000-4-6 Surge: Power: 2 kV; Signal: 1 kV IEC 61000-4-6 SURGE: Power: 2 kV; Signal: 3 V/m IEC 61000-4-6 SURGE: Power: 2 kV; Signal: 3 V/m IEC 61000-4-6 SURGE: POWER: 2 kV; Signal: 3 V/m IEC 61000-4-8 PFMFDeclarationRoHS, CRoHS, WEEEMTBFPower: CP-104N-T: 3,673,087 hrs CP-104N-T: 2,189,472 hrsStandardsTelcordia (Bellcore) Standard TR/SRWarrantySee www.moxa.com/warrantyVarranty Period5 yearsDetailsSee www.moxa.com/warrantyPackage ContentsIx CP-104N Series serial boardDevice1 x CP-104N Series serial boardCableCP-104N-T: 2 x 20-pin female to 2 DB9 male serial cables, 25 cm	EMC	EN 55032/35	
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 61000-4-6 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 PFMFDeclarationRoHS, CRoHS, WEEEMTBFCP-104N-T: 3,673,087 hrs CP-104N-T: 2,189,472 hrsStandardsTelcordia (Bellcore) Standard TR/SRWarrantySea www.moxa.com/warrantyWarranty Period5 yearsDetailsSee www.moxa.com/warrantyPackage ContentsCP-104N-T: 2, 20-pin female to 2 DB9 male serial cables, 25 cm	EMI	CISPR 32, FCC Part 15B Class A	
Green Product   RoHS, CRoHS, WEEE     MTBF     Time   CP-104N-T: 3,673,087 hrs CP-104N-I-T: 2,189,472 hrs     Standards   Telcordia (Bellcore) Standard TR/SR     Warranty   Telcordia (Bellcore) Standard TR/SR     Warranty Period   5 years     Details   See www.moxa.com/warranty     Package Contents   1 x CP-104N Series serial board     Cable   CP-104N-T: 2 x 20-pin female to 2 DB9 male serial cables, 25 cm	EMS	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	
MTBF     Time   CP-104N-T: 3,673,087 hrs CP-104N-I-T: 2,189,472 hrs     Standards   Telcordia (Bellcore) Standard TR/SR     Warranty   Varranty     Warranty Period   5 years     Details   See www.moxa.com/warranty     Package Contents   1 x CP-104N Series serial board     Cable   CP-104N-T: 2 x 20-pin female to 2 DB9 male serial cables, 25 cm	Declaration		
TimeCP-104N-T: 3,673,087 hrs CP-104N-I-T: 2,189,472 hrsStandardsTelcordia (Bellcore) Standard TR/SRWarrantyYurrantyWarranty Period5 yearsDetailsSee www.moxa.com/warrantyPackage Contents1 x CP-104N Series serial boardCableCP-104N-T: 2 x 20-pin female to 2 DB9 male serial cables, 25 cm	Green Product	RoHS, CRoHS, WEEE	
CP-104N-I-T: 2,189,472 hrsStandardsTelcordia (Bellcore) Standard TR/SRWarrantyWarranty Period5 yearsDetailsSee www.moxa.com/warrantyPackage ContentsDevice1 x CP-104N Series serial boardCableCP-104N-T: 2 x 20-pin female to 2 DB9 male serial cables, 25 cm	MTBF		
Warranty   Fackage Contents     Device   1 x CP-104N Series serial board     Cable   CP-104N-T: 2 x 20-pin female to 2 DB9 male serial cables, 25 cm	Time		
Warranty Period5 yearsDetailsSee www.moxa.com/warrantyPackage Contents1 x CP-104N Series serial boardDevice1 x CP-104N Series serial boardCableCP-104N-T: 2 x 20-pin female to 2 DB9 male serial cables, 25 cm	Standards	Telcordia (Bellcore) Standard TR/SR	
Details See www.moxa.com/warranty   Package Contents I x CP-104N Series serial board   Device 1 x CP-104N Series serial board   Cable CP-104N-T: 2 x 20-pin female to 2 DB9 male serial cables, 25 cm	Warranty		
Package Contents     Device   1 x CP-104N Series serial board     Cable   CP-104N-T: 2 x 20-pin female to 2 DB9 male serial cables, 25 cm	Warranty Period	5 years	
Device   1 x CP-104N Series serial board     Cable   CP-104N-T: 2 x 20-pin female to 2 DB9 male serial cables, 25 cm	Details	See www.moxa.com/warranty	
Cable CP-104N-T: 2 x 20-pin female to 2 DB9 male serial cables, 25 cm	Package Contents		
	Device	1 x CP-104N Series serial board	
	Cable		



Installation K	t
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Documentation

Door/CP-100N Port12, Door/CP-100N Port34

**CP-104N-I-T** 

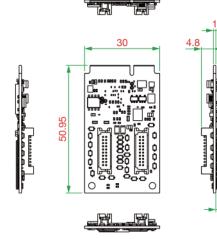
1 x quick installation guide

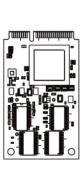
1 x warranty card

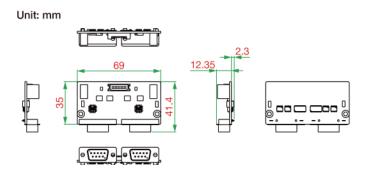
# **Dimensions**

### CP-104N-T

Unit: mm







## **Ordering Information**

Model Name	Serial Standards	No. of Serial Ports	Serial Isolation Protection
CP-104N-T	RS-232	4	-
CP-104N-I-T	RS-232	4	2.5 kV

# Accessories (sold separately)

#### Connectors

Mini DB9F-to-TB	DB9 female to terminal block connector
Cables	
CBL-M9x2HSF2x10H-15	20-pin female to 2 DB9 male serial cables, 15 cm Applicable Models: CP-104N-T
CBL-HSF2x10-15	20-pin female to 20-pin female serial cable, 15 cm Applicable Models: CP-104N-I-T

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