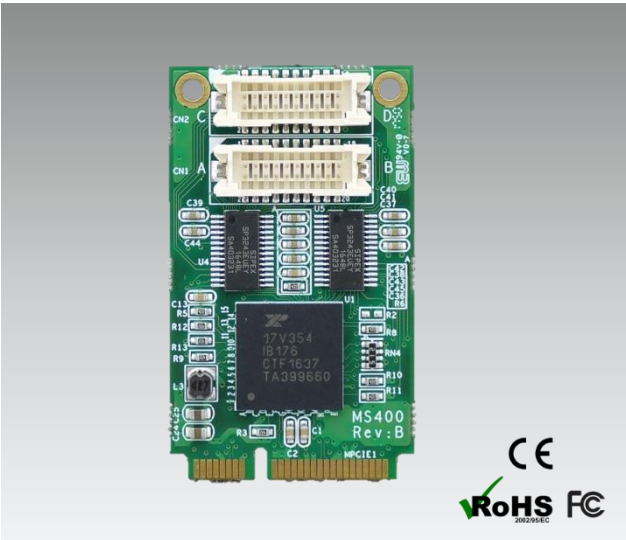




Main Features

- PCI-Express x1 Lane Bus Interface
- MiniPCIe to 4 port RS-232
- Additional COM port extension board and cable kit
- x 1 Link, Dual Simplex, 2.5Gbps in each direction
- Up to 25Mbps serial data rate
- Data read/write 32-bit operation
- Industrial design, manufactured in Cadmus Taiwan

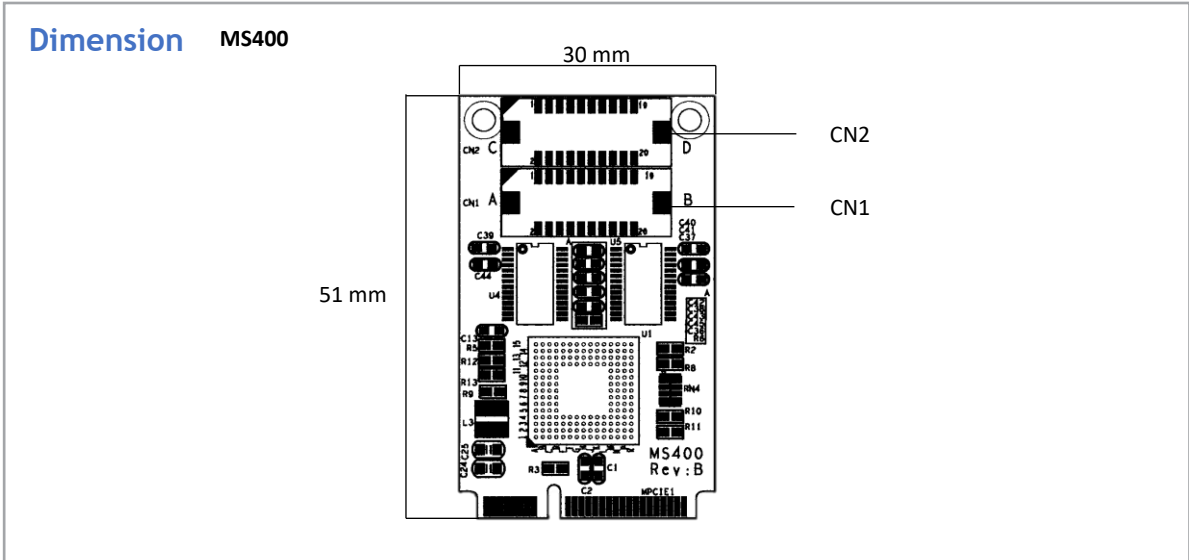
Product Overview

Cadmus’s MS400F is rugged Mini PCIe modules that are ideal for adding extra serial port capabilities to any system with minimal increase in overall system size and power consumption.

The wide operating temperature and latching connector and cabling solution allow these modules to be used in harsh environments. Compatibility with a large variety of popular operating systems allows these boards to be easily integrated into a wide array of new and existing systems.

Specifications

Module Name	MS400F
Module Type	Mini PCIe to quad port RS232 Module
Form Factor	Mini PCIe full size
Input interface	PCI Express 2.0
Output Interface	RS232
Output Connector	Two 20pin Connector Cable for internal connection One MS400K BOAR (on board Com port connector) One HDR44pin to 4 x DB9 Cable (External connector)
Power input	On board 3.3V
Dimensions	51 x 30(mm)
Transfer speed	Data read/write 32-bit operation , up to 25 Mbps serial data rate
Compatible Operating System	Windows 7
	Windows 8.1
	Windows 10
	Windows Server 2003
	Windows Server 2008
	Linux
Working Temperature	-40°C-85°C



Pin definition

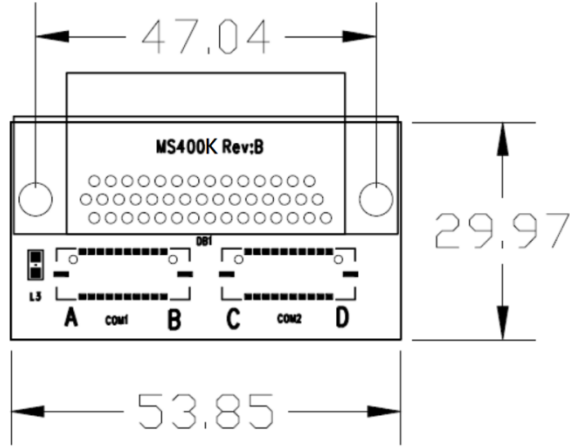
CN1

PIN	RS232	PIN	RS232
P1	DSR0	P2	DCD0
P3	RTS0	P4	RXD0
P5	CTS0	P6	TXD0
P7	RI0	P8	DTR0
P9	NC	P10	GND
P11	DSR1	P12	DCD1
P13	RTS1	P14	RXD1
P15	CTS1	P16	TXD1
P17	RI1	P18	DTR1
P19	NC	P20	GND

CN2

PIN	RS232	PIN	RS232
P1	DSR2	P2	DCD2
P3	RTS2	P4	RXD2
P5	CTS2	P6	TXD2
P7	RI2	P8	DTR2
P9	NC	P10	GND
P11	DSR3	P12	DCD3
P13	RTS3	P14	RXD3
P15	CTS3	P16	TXD3
P17	RI3	P18	DTR3
P19	NC	P20	GND

Dimension MS400K



Pin definition

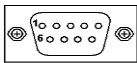
MS400K A-B PIN Definition (COMA1)

PIN	RS232	PIN	RS232
P1	DCD1	P11	DCD0
P2	DSR1	P12	DSR0
P3	RXD1	P13	RXD0
P4	RTS1	P14	RTS0
P5	TXD1	P15	TXD0
P6	CTS1	P16	CTS0
P7	DTR1	P17	DTR0
P8	RI1	P18	RI0
P9	GND	P19	GND
P10	NC	P20	NC

MS400K C-D PIN Definition (COMA2)

PIN	RS232	PIN	RS232
P1	DCD2	P11	DCD3
P2	DSR2	P12	DSR3
P3	RXD2	P13	RXD3
P4	RTS2	P14	RTS3
P5	TXD2	P15	TXD3
P6	CTS2	P16	CTS3
P7	DTR2	P17	DTR3
P8	RI2	P18	RI3
P9	GND	P19	GND
P10	NC	P20	NC

COM 1~4



Pin	RS232 Signal Name
1	DCD, Data carrier detect
2	RXD, Receive data
3	TXD, Transmit data
4	DTR, Data terminal ready
5	GND, ground
6	DSR, Data set ready
7	RTS, Request to send
8	CTS, Clear to send
9	RI, Ring indicator

Ordering Information

MS400F

- Mini PCIe to 4 ports RS232
- w/ 20pin cable x2
- MS400K connector board
- HDR44pin to 4 ports DB9 cable

Front view

