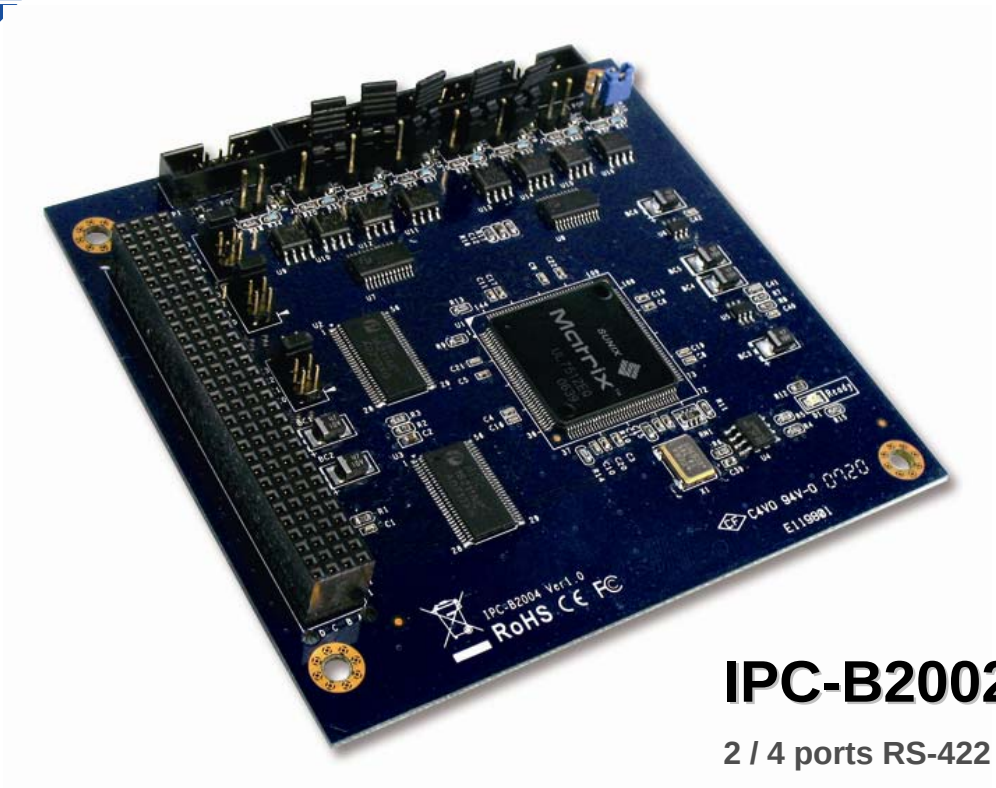
SUNIX



IPC-B2002 / 4

2 / 4 ports RS-422 / 485 PCI/104
(with Surge & Isolation options)

Features

- Expands 2/4 independent RS-422/485 serial ports with communication speeds up to 921.6Kbps
- High speed SUNX single chip solution with built-in 16C750 compatible UART controller
- Compliance with PCI/104 specifications
- Ideal for embedded computing applications
- RS-422/485 auto detect and switching technology – jumper and software free
- AHDC/CS™technology for collision free communicationy
- Built-in 15KV ESD protection for all serial signals
- Plug-n-Play, I/O address and IRQ assigned by BIOS
- Certified by CE, FCC, RoHS, and Microsoft WQHL approval
- Support Microsoft Windows, Linux, and DOS

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Introduction

SUNIX IPC-B200X series, PCI/104 serial communication boards, allows users to add or expand 2/4 RS-422/485 ports on Industrial PC-based system. The card is compatible with PCI/104 BUS specifications, allowing it to be installed in virtually any embedded PC-based systems. SUNIX card has 64-bytes onboard FIFO buffer and compatible with 16C750 UART specification. SUNIX industrial serial cards used the most advanced chipset developed by SUNIX called MATRIX for high performance and reliable communication. These cards are single chip solution with built-in UART controllers. This industrial card series is designed with many of SUNIX advanced features and technologies, making it the best solution for industrial and mission critical applications.

Specifications

Serial Communication

Interface	RS-422 / 485	**Baud rate**	75bps ~921.6Kbps
Controller	SUNIX MATRIX (16C750 UART Compatible)	**Stop bit**	1, 1.5, 2
BUS	PCI / 104	**Parity**	even, odd, none, mark, space
No. of Port	2 / 4 ports	**Flow Control**	Xon / Xoff (software)
IRQ & IO	Assigned by System	**Protection**	15KV ESD protection 2.5KV Isolation protection
FIFO	64byte Hardware	**PCB Connector**	Pin Header
Signal	4-wire RS-485: TxD+, TxD-, RxD+, RxD-, GND 2-wire RS-485: Data+, Data-, GND	**Cable Connector**	5 x 2 Pin Header to DB9 Male

Driver Support

Microsoft	3.1/ 95 / 98 / NT / ME / 2000 / XP / 2003 / Vista (32bit) / CE5.0 / XP Embedded	**Unix**	SCO Unixware 7.1.3, SCO OpenServer 5.0.6/5.0.7/6.0
Linux	Linux 2.4.x / 2.6.x	**DOS**	DOS

Regulatory Approvals

Hardware	EN55022 Class B, EN55024, EN61000-3-2, EN61000-3-3, FCC Part 15 Class B, RoHS
Software	Microsoft WHQL

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Operation Environment

Operation Temperature	0°C to 70°C
Operation Humidity	5 to 95% RH
Storage Temperature	-40°C to 85°C

Dimension(Unit = mm)

PCB Dimension	95.89 x 90.17 mm

Warranty: 5 years

Pin Assignment

PIN	DB9M
DCD	1
RxD	2
TxD	3
DTR	4
GND	5
DSR	6
RTS	7
CTS	8
RI	9

Optional Accessories

5 x 2 pin header to 2 / 4 ports DB9 male connection cable, 30 cm

Ordering Information

- IPC-B2002 2 ports RS-422/485 PCI/104 Serial Board
- IPC-B2002SI 2 ports RS-422/485 PCI/104 Serial Board with Surge & Isolation
- IPC-B2004 4 ports RS-422/485 PCI/104 Serial Board
- IPC-B2004SI 4 ports RS-422/485 PCI/104 Serial Board with Surge & Isolation