

## IPC-P2002 / 4 / 8

2 / 4 / 8 ports RS-422 / 485 Universal PCI  
(with Surge & Isolation options)



### Features

- Expands 2/4/8 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 33MHz Ver 3.0, 2.3 & 2.2 specifications
- Low profile boards for smaller PC
- Supports both 64-bit & 32-bit PCI bus slot and 3.3V & 5V power
- RS-422/485 auto detect and switching technology – jumper and software free
- AHDC/CS™ technology for collision free communication
- 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



## Introduction

SUNIX IPC-P200X series, Universal PCI serial communication boards, allows users to add or expand 2/4/8 RS-422/485 ports on Industrial PC-based system. The card is compatible with both 64 / 32-bit PCI architecture supporting 3.3 and 5V Bus, allowing it to be installed in virtually any 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

<b>Interface</b>	RS-422 / 485	<b>Baud rate</b>	75bps ~921.6Kbps
<b>Controller</b>	SUNIX MATRIX (16C750 UART Compatible)	<b>Stop bit</b>	1, 1.5, 2
<b>BUS</b>	Universal PCI 64/32bit 3.3V/5V PCI Ver 3.0, 2.3, 2.2	<b>Parity</b>	even, odd, none, mark, space
<b>No. of Port</b>	2 / 4 / 8 ports	<b>Flow Control</b>	Xon/Xoff (software)
<b>IRQ &amp; IO</b>	Assigned by System	<b>Protection</b>	15KV ESD protection 2.5KV Isolation protection
<b>FIFO</b>	64byte Hardware	<b>PCB Connector</b>	DB44 Male
<b>Signal</b>	RS-422: TxD+, TxD-, RxD+, RxD-, GND 4-wire RS-485: TxD+, TxD-, RxD+, RxD-, GND 2-wire RS-485: Data+, Data-, GND	<b>Cable Connector</b>	DB9 / DB25 Male

### Driver Support

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

### Regulatory Approvals

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



### Operation Environment

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

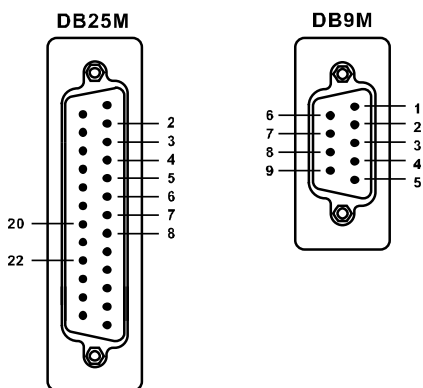
### Dimension(Unit = mm)

PCB Dimension	120 x 63.5 mm
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**Bracket:** Low Profile

**Warranty:** 5 years

### Pin Assignment



PIN	DB9M	DB25M
DCD	1	8
RxD	2	3
TxD	3	2
DTR	4	20
GND	5	7
DSR	6	6
RTS	7	4
CTS	8	5
RI	9	22

### Optional Accessories

DB44 to 2/4/8 ports DB9 male connection cable, 40/100 cm



DB44 to 2/4/8 ports DB25 male connection cable, 40/100 cm



## Ordering Information

- ◆ IPC-P2002                    2 ports RS-422/485 Universal PCI Serial Board
- ◆ IPC-P2002SI                2 ports RS-422/485 Universal PCI Serial Board with Surge & Isolation
- ◆ IPC-P2004                    4 ports RS-422/485 Universal PCI Serial Board
- ◆ IPC-P2004SI                4 ports RS-422/485 Universal PCI Serial Board with Surge & Isolation
- ◆ IPC-P2008                    8 ports RS-422/485 Universal PCI Serial Board
- ◆ IPC-P2008SI                8 ports RS-422/485 Universal PCI Serial Board with Surge & Isolation