

PCIe 2-Port Serial + 1-Port Parallel Card

User Manual

Ver. 1.00

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Chapter 1: Introduction

1.1 Product Introduction

The card allows users to expand an additional LPT port and two Serial port on PC-based systems to connect their devices. The card is used for business automation and is also ideal for home or office users.

1.2 Features

Features	● Compliant with PCIe 2.0 Gen 1 ● Compatible with IEEE 1284 –SPP/Byte/ECP Mode
	● Add one IEEE1284 Parallel port on system ● Serial data transfer rate up to 921600bps ● Supports 2 x UART serial port ● Parallel data transfer rate up to 190KB/s
Bus	● PCI-Express x1
Connectors	● 1 x DB25 female connector ● 2 x DB9 male serial connectors

1.3 System Requirements

- Windows® XP/Vista/7/8.x/10 (32/64 bit),
- Linux 2.6.32 or later
- One available PCI Express slot

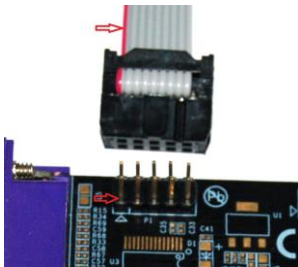
1.4 Package Contents

- 1 x PCIe 2-Port Serial +1 Port Parallel Card
- 1 x User Manual
- 1 x Fan Out Cable (model dependent)

Chapter 2: Getting Started

2.1 Hardware Installation

1. Turn off the power to your computer.
2. Unplug the power cord and remove your computer's cover.
3. Remove the slot bracket from an available PCIe slot.
4. To install the card, carefully align the card's bus connector with the selected PCIe slot on the motherboard. Push the board down firmly.
5. Replace the slot bracket's holding screw to secure the card.
6. Replace the computer cover and reconnect the power cord.

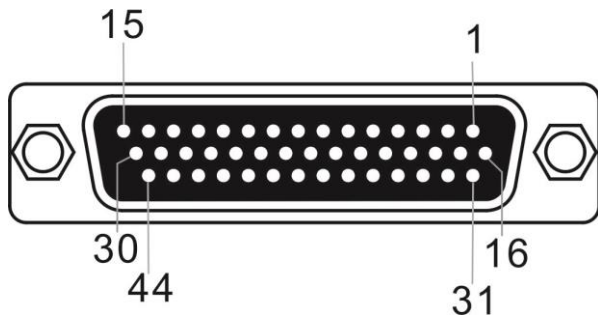


* DB9 serial cable connection as shown (red cable is connected to pin 1)

2.2 PCIe 2S1P Controller Card w/ fan out cable Pin Assignment

The 2-ports Serial and 1-port Parallel PCI Cards have a female DB44 connector on the board. In this section, we give the on-board connector's pin assignments to facilitate making your own connection cable, and the male DB44 device-side pin assignments for the fan out cable.

Male DB44 Connector: Device-side Pin Assignments:



Serial and Parallel	Signal	pin
Serial port 1	DCR	2
	RX	1
	TX	31
	DTR	32
	GND	33
	DSR	18
	RTS	16
	CTS	3
	RI	17
Serial port 2	DCR	30
	RX	29
	TX	12
	DTR	28
	GND	43
	DSR	15
	RTS	13
	CTS	44

	RI	14
Parallel port	STROBE	10
	DATA 0	7
	DATA 1	22
	DATA 2	6
	DATA 3	21
	DATA 4	5
	DATA 5	20
	DATA 6	4
	DATA 7	19
	ACK	8
	BUSY	24
	PE	23
	SELECT	9
	AUTPFDX	26
	ERROR	25
	INIT	11
	SLIN	27
	GND	34
	GND	35

	GND	36
	GND	37
	GND	38
	GND	39
	GND	40
	GND	41
	NC	42

2.3 Driver Installation

2.3.1 Installation for Windows

1. Login URL <http://www.sunrichtech.com.hk/>
2. PCIe 2-Port Serial + 1-Port Parallel Card Search IE-A59-7130 and download driver; PCIe 2S1P Controller Card w/ fan out cable Search IE-A59-7230 and download driver
3. Follow the prompts to install the driver
4. After the driver installation is complete, you must restart your computer.

2.3.2 Installation for Linux

1. Login URL <http://www.sunrichtech.com.hk/>
2. PCIe 2-Port Serial + 1-Port Parallel Card Search IE-A59-7130 and download driver; PCIe 2S1P Controller Card w/ fan out cable Search IE-A59-7230 and download driver
3. Extract the compressed driver source file to a certain directory by the following command: (Please copy the driver file from the download driver folder to a certain folder on hard drive)

```
# tar xf AX99100_SP_PP_SPI_LINUX_Driver_v x.x_Source.tar
```
4. Now, the driver source files should be extracted under the current directory. Executing the following command to compile the driver:

```
# make
```
5. If you want to use modprobe command to mount the driver, executing the following command to install the driver into your kernel:

```
# make install
```
6. After the driver installation is complete, you must restart your computer.