

# Serial ExpressCard

## 4 port 16C950 Serial ExpressCard

EC4S950

Instruction Manual



Actual product may vary from photo

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*Making hard-to-find easy!*

## **FCC Compliance Statement**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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# Table of Contents

<b>Introduction</b> .....	<b>1</b>
Features .....	1
System Requirements .....	1
Package Contents .....	1
<b>Installation</b> .....	<b>2</b>
Safely removing the ExpressCard .....	3
<b>Specifications</b> .....	<b>4</b>
<b>Accessory Products from StarTech.com</b> .....	<b>4</b>
<b>Technical Support</b> .....	<b>5</b>
<b>Warranty Information</b> .....	<b>5</b>

## Introduction

Thank you for purchasing a StarTech.com 16C950 Serial ExpressCard. Now you can connect standard serial devices to any computer with an available ExpressCard slot; providing data transfer rates of up to 921Kbps, this is the perfect solution for connecting serial peripherals such as POS devices, PDAs, digital cameras, printers, ISDN terminal adapters and more.

### Features

- High Performance 16C950 UART with maximum data transfer rates up to 921.6 kbps
- Automated out-of-band flow control
- 128-byte deep FIFO per transmitter and receiver
- Automated in-band software flow control using programmable Xon/Xoff in both directions

### Before you begin

#### System requirements:

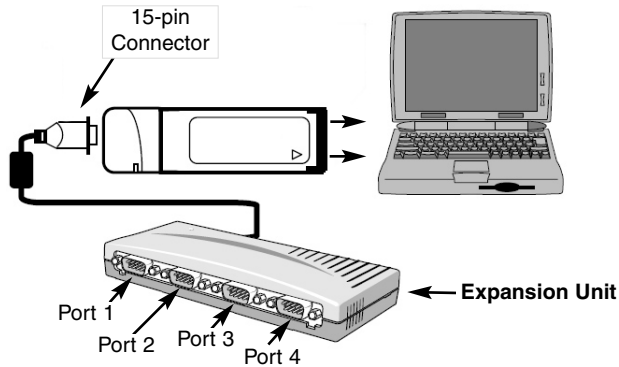
- A computer with an available ExpressCard slot (Please see **Accessory Products from StarTech.com** if you wish to use this ExpressCard with a desktop computer).
- Operating system requirements: WINDOWS 2000/XP/XP 64-bit/2003 Server/2003 Server 64-bit/Vista/Vista 64-bit

#### Package contents:

*This package should contain:*

- 1 x Serial RS-232 ExpressCard
- 1 x 4-Port DB9 Hub with Adapter Cable
- 1 x Instruction Manual
- 1 x Driver CD

# Installation



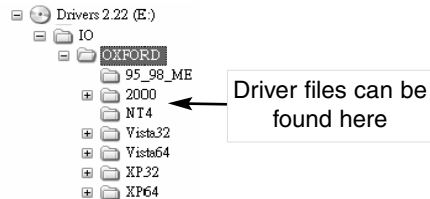
**Caution:** It is advisable to remove all possible static discharge potential from any objects that the ExpressCard may come in contact with before installation. This can be accomplished by touching a grounded metal object, prior to insertion.



**Warning:** Please do not remove the 15-pin cable when the ExpressCard is inserted in the ExpressCard slot and the host computer is powered. The 15-pin connector is not designed to support hot-plugging, so it cannot be disconnected while the system is running. The hot-plug feature is only supported by the ExpressCard connector and the Notebook's ExpressCard slot.

1. The driver files for Windows are shipped in a .zip format (eg. V409HS.zip). Please copy the files to your hard drive and unzip them, before proceeding with installation.

**Please note:** When installing the software for EC4S950, ensure that you browse to the correct operating system folder. Allowing Windows to search for the file may result in the incorrect file being installed, as the Driver CD contains several versions of the necessary software.



2. Connect the 15-pin cable of the Expansion Unit to the ExpressCard.
3. Insert the ExpressCard into an unused ExpressCard slot on the host computer. This will launch the **Add New Hardware Wizard**. Click on **Next**.
4. Select **Install from a list or specific location (Advanced)** and click **Next**.
5. Select **Include this location in the search**, then click on **Browse** to specify the exact file location (E:\IO\OXFORD\NT4 etc.) and click **Next** to continue. Please note that if the exact file is not selected, an installation conflict could occur. Please pay particular

attention to the folder name, when browsing to the destination file.

6. Click **Next** to continue and click **Finish** to complete the installation.
7. Right-click on the **My Computer** icon, and select **Manage**. Choose **Device Manager** (in the left pane), and double-click on **Ports** (in the right pane).
8. Right-click on one of the newly added ports, and choose **Properties**. Click on the **Data rate** tab, then click on **Detect Crystal Frequency**. Click **OK** to save this setting.
9. Repeat step 9 for each added port.
10. Serial devices can be connected, once the preceding steps are complete.

### **Safely removing the ExpressCard**

Please note that in Windows XP and 2000, when the ExpressCard is connected to the host computer, an icon (depicted below) will appear in the taskbar (normally the bottom right-hand corner of the screen, near the clock). To ensure safe removal of the ExpressCard, please click on this icon, select **Stop**, click **OK** and then **Close**, after which you can safely remove the ExpressCard from the host computer.



## Specifications

<b>Certifications</b>	ROHS, FCC, CE
<b>Bus Type</b>	ExpressCard
<b>Form Factor</b>	34mm
<b>Connectors</b>	4 x DB9 Male 1 x 15 pin to four DB9 ports
<b>Maximum Data Transfer Rate</b>	921 Kbps
<b>OS Support</b>	WINDOWS 2000/XP and XP 64-bit/2003 Server and 2003 Server 64-bit/Vista and Vista 64-bit

## Accessory Products from StarTech.com

Contact your local StarTech.com dealer or visit [www.startech.com](http://www.startech.com) for cables or other accessories that will help you get the best performance out of your new product.



**MC3MF**  
3 ft. AT Modem Cable DB9F-DB25M



**MC6MF**  
6 ft. AT Modem Cable (male to female)



**MXT100\_25**  
25 ft. 9-pin Straight Through Cable (male to female)



**AT925FF**  
Adapter DB9F to DB25F



**AT925FM**  
Adapter DB9F to DB25M



**PEX2EC**  
PCI-Express to ExpressCard Adapter

## **Technical Support**

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## **Warranty Information**

This product is backed by a lifetime warranty. In addition, StarTech.com warrants its products against defects in materials and workmanship for the periods noted, following the initial date of purchase. During this period, the products may be returned for repair, or replacement with equivalent products at our discretion. The warranty covers parts and labor costs only. StarTech.com does not warrant its products from defects or damages arising from misuse, abuse, alteration, or normal wear and tear.

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