SYSTEMBASE

Serial Card PCI

Software User Manual

Revision History

Revision Date(M/D/Y)	Version	Pages	Description
Oct/24/2008	1.0	All	New
May/22/2009	1.1	Partial	Revised
Sept/03/2009	1.2	Partial	Revised
Feb/08/2010	1.3	Partial	Revised
Nov/15/2010	1.4	Partial	Revised
Oct/07/2015	1.5	Partial	Support for Windows 10 and Server 2012 added
Dec/08/2015	1.6	Partial	Revised
May/14/2020	1.7	Partial	Remove CD context
February/03/2021	1.8	Partial	Add Slot Location Identification Feature Add User Note Feature

Contents

1. overview

1, 2,4,8,16,24 or 32 serial ports can be used with serial card by SystemBase for RS 232, RS422, or RS485 communication.

Multi-1/PCI, Multi-2/PCI, Multi-4/PCI, and Multi-8/PCI serial cards provide one, two, four and eight serial ports respectively.

Multi-32/PCI serial card can be connected to panel or panels to add 8, 16, 24, 32 ports. Each port is complied with standard UART for both-way communication with maximum speed of 921,600 bps.
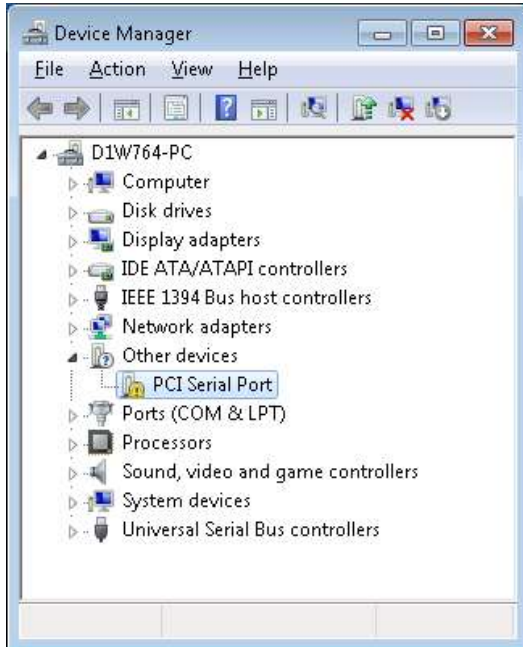
System Requirement

CPU　　　 : Intel Pentium 1GHz or better
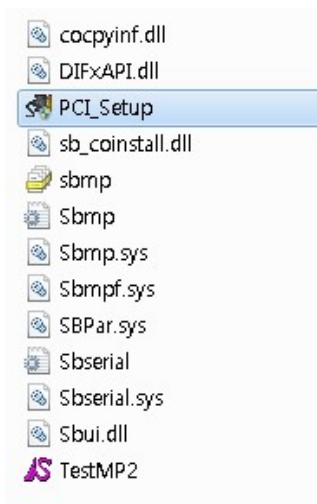
RAM　　　: 512MB or higher

OS ：Windows 7 or higher
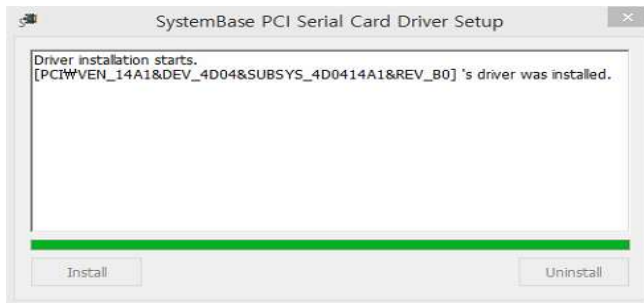
2. Installing Windows Device Driver

1. Turn off your PC and insert PCI card into any PCI slot.

2. Connect the panel to the serial card.

3. Turn on the PC.

4. Go to "Device Manager" under "Control Panel" to check "PCI Serial Port" on "Other devices".

5. Download driver from SystemBase website(www.sysbas.com) and unzip the file. Run "PCI_Setup.exe" file located in "Drivers" folder.
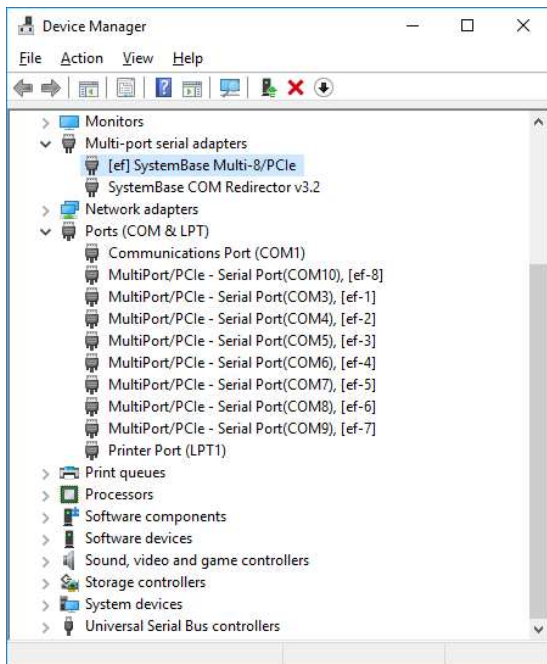
6. Clicking the **Install** button to start installing the driver.

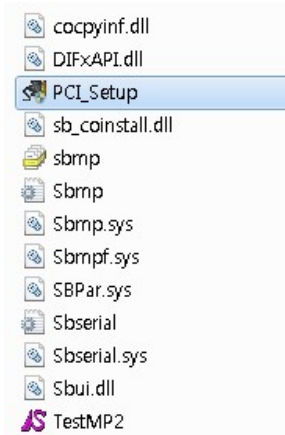7. When the driver installation is complete, notification window will appear as shown below.

8. After running the Device Manager, you can verify that driver is installed on the Multi-port serial adapters and Ports(COM & LPT) items. The Multi-port serial adapters consist of the slot address(location) where the device is installed, the device name and the user note. Ports is displayed in the order of the port name, port location, port order and user note.
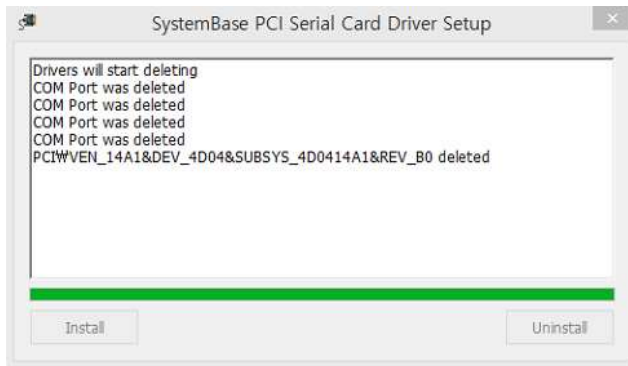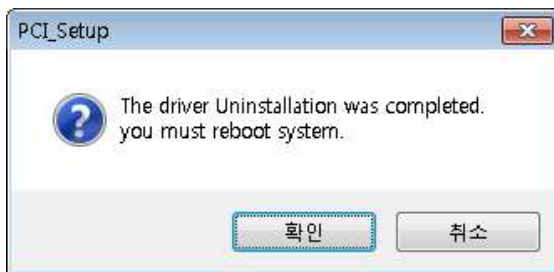

5

3. Uninstalling Windows Device Driver

1. Download driver from SystemBase website(www.sysbas.com) and unzip the file. Run "PCIe_Setup.exe" file located in "Drivers" folder.

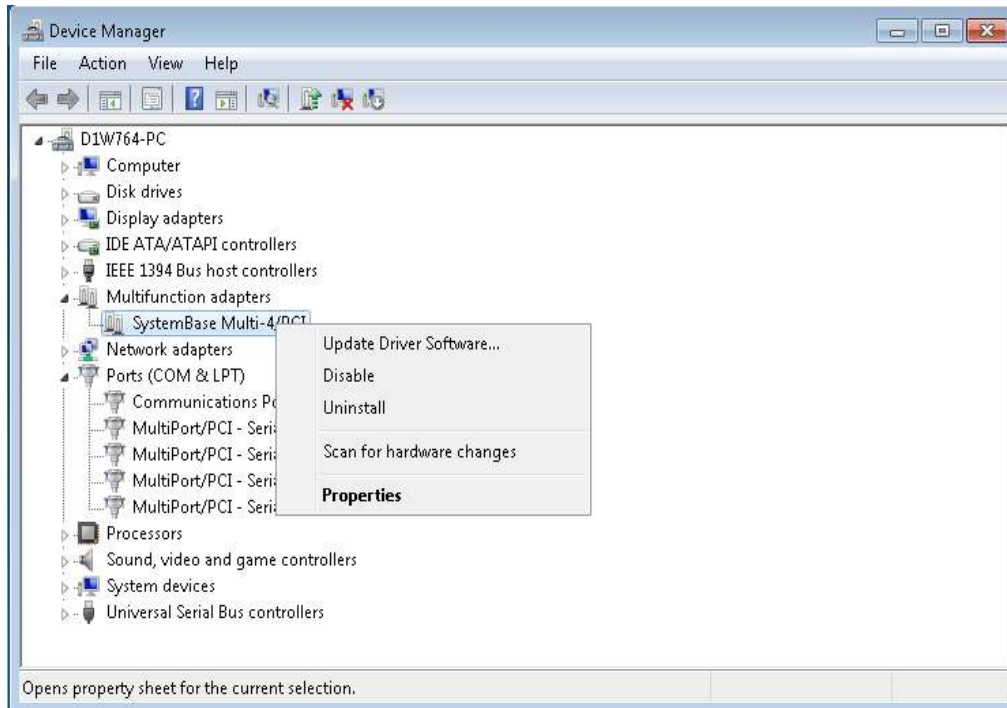2. Click "**Uninstall**" button to delete the driver.

3. After driver is removed, the notification window will be shown as below.
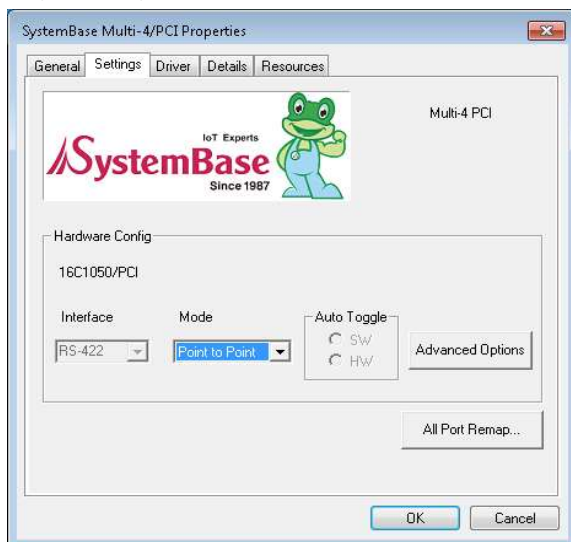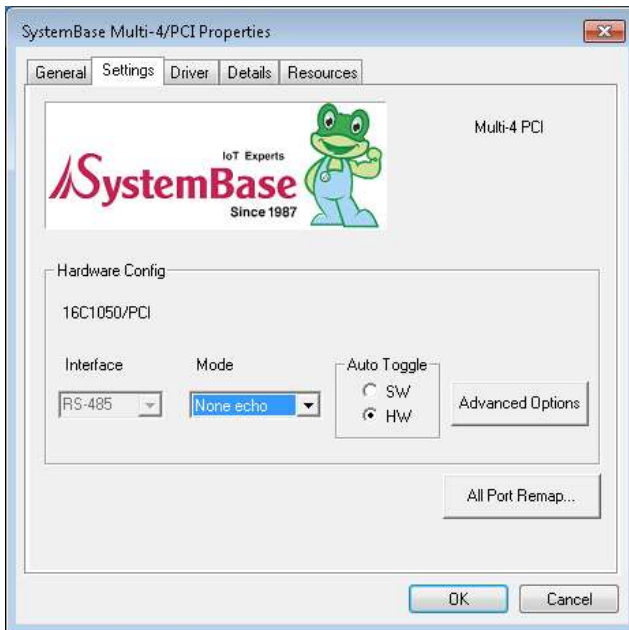
4. Configuring Windows Device Driver

1. If you want to change the configurations of the serial card, click on the right mouse button over the serial card shown on the "Multifunction adapters", then click "Properties".
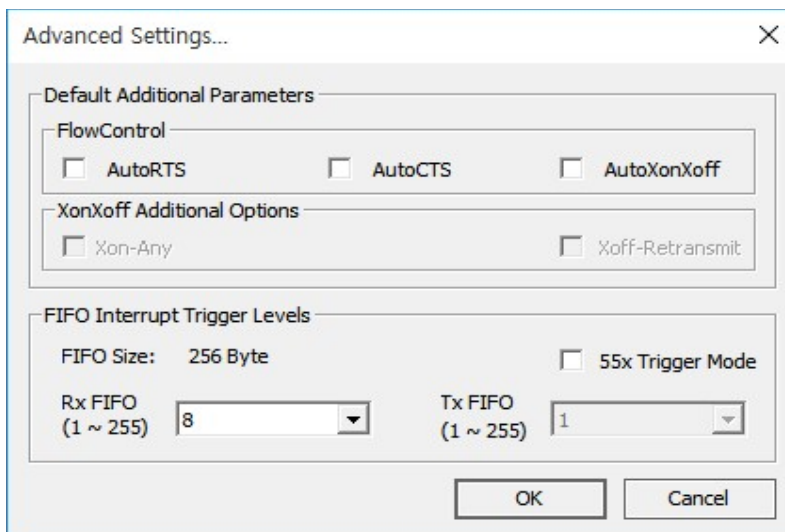

2. Under Hardware Configuration setting, Auto Toggling setting is disabled at RS232 mode and RS422 "point to point" mode.
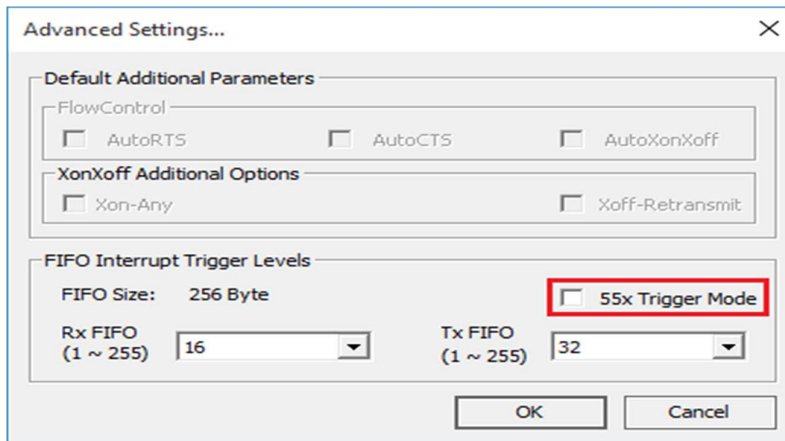
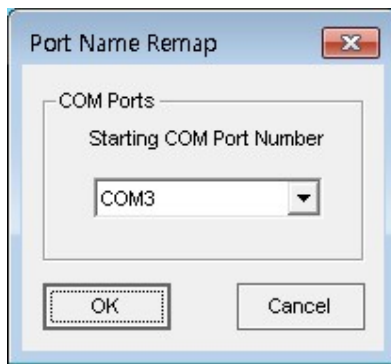3. Under "Hardware Config", "Auto Toggle" is available in RS485 mode.

4. Click "Advanced Options" button to see "Advanced Settings" window. If UART type is 16C105x, "Flow Control" would be enabled with 256 byte FIFO size. You can select the "AutoRTS", "AutoCTS", "AutoXonXoff" from "Default Additional Parameters" for flow control. The default values for "FIFO Interrupt Trigger Levels" are 16 for Rx FIFO and 32 for Tx FIFO.
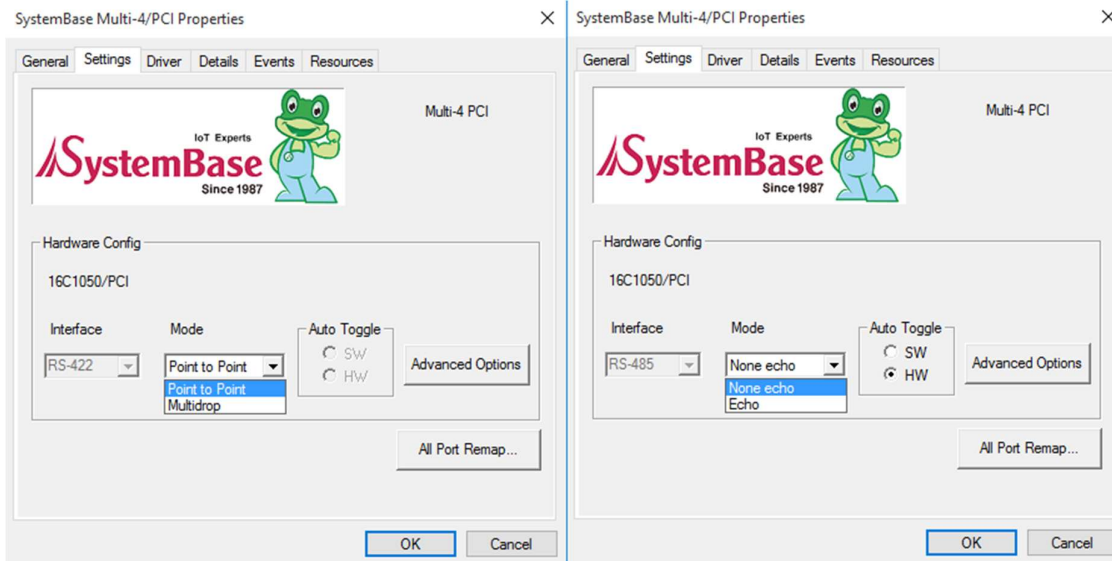
5. When 16C105x type serial card is communicating with low speed device, there may be some delay from interrupt when trigger level is high. Check on "55x Trigger Mode" in this case. However, for high speed communication, using "55x Trigger Mode" not advisable.

6. Clicking "All Port Remap…" button will show "Port Name Remap" window. If COM3 is selected while there are no ports used after COM3, serial port number will be ordered sequentially. Numbers may skip if there are any used port number in the middle.
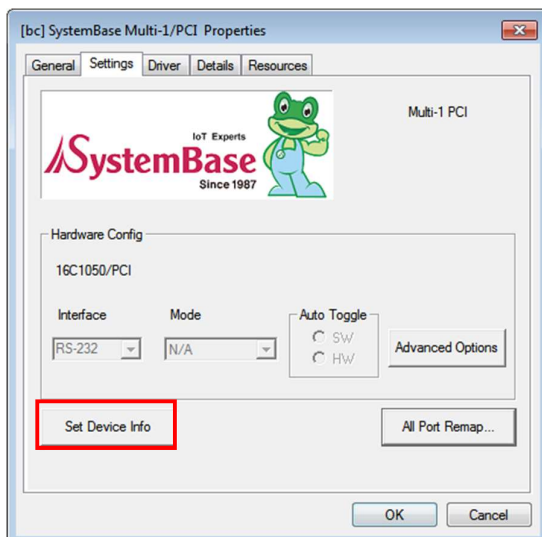

7. Multi-4, Multi-8 PCI cards which are used with the Combo(RS-422/485) Panel operate as set in the panel, whether or not the properties are selected in Mode. Mode is used as a reference here to save the settings of the panel.
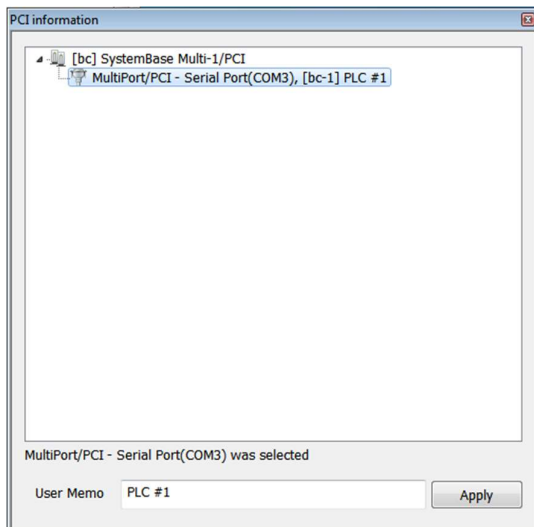
- RS422 Point to Point: Mode in which RS422 equipment becomes master of each other and communicates one-to-one bi-directional
- RS422 Multidrop: Mode in which the Multidrop set equipment becomes the master and communicates in both directions with a number of slave equipment.
- RS485 Non-Echo: Mode for sending data without receiving feedback from data sent by RS485's default operation
- RS485 Echo: Mode in which data sent from RS485 is fed back to determine whether data transmission was successful or not.
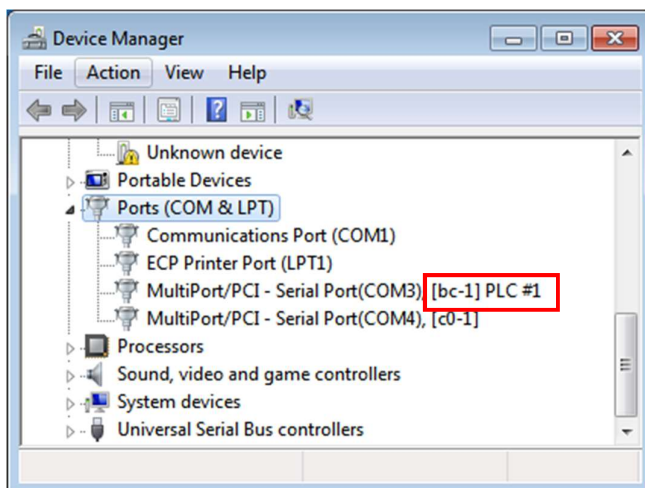
8. To enter a user note, click the "Set Device Info" button to launch the PCIe Information window.

9. Choose adapter or port in the PCI Information window, enter/revise the user note and click "Apply"

button to save the contents on PC.

(10) The registered user note is displayed in the Device Manager.

5. Troubleshooting

Serial card is in the PCI slot but does not work.

- Try reinstalling serial card to the PCI slot on the motherboard.

- Uninstall the driver, reboot, then install the driver again.

If you have any inconvenience while using the product, please contact us.

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