

AR-B104C Board

AR-B104C-4P PCI104 with 4 COM / AR-B104C-8P PCI104 with 8 COM

User Manual

Manual Rev.: 1.01

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Revision

Version	Date	Author	Description
1.0	2009/12/17	Ken	Release
1.01	2010/01/15	Ken	Added Jumpers Discriptions.

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Manual's first edition:

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1 Introduction

The Acrosser AR-B104C presents you the most reliable and cost effective UART solution, which provides RS-232/422/485 connection abilities to your system to control related industrial devices. Via PCI-104 interface, the AR-B104C can be connected more robust and transmit more efficient than PC-104. It also contain jumper for the customer to switch between RS-232/422/485 without any software setting.

1.1 Specifications

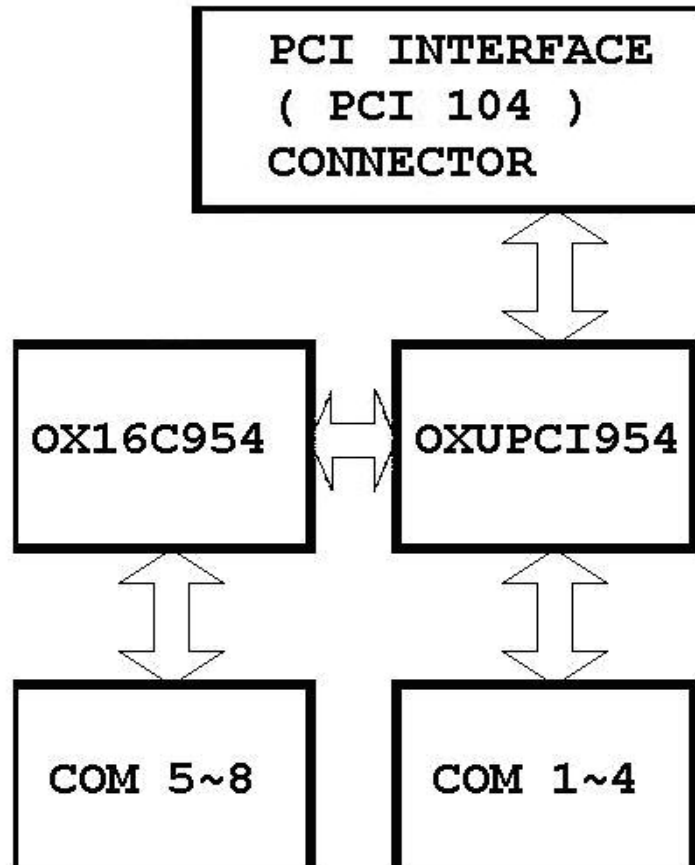
- PCI 104 Compliant.
- 4 UART channels(AR-B104C/4P), could option to 8 channel(AR-B104C/8P).
- Compatible with 16C550 performance UART channel.
- Supports all RS-232C transceiver mode. RS232/RS485/RS422 selectable by jumper. Reserve 2 GPIO from Oxford to identify the board is AR-B104C/4P, AR-B104C/8P, AR-B104B/4P, AR-B104B/8P Maximum baud rate to 15Mbps in asynchronous mode.
- Connector for 4P : one set of 2 x 22 2.0mm pin head 180 degree.
- Connector for 8P : two sets of 2 x 22 2.0mm pin head 180 degree.
- Operation Temperature : AR-B104C/4P: -20°C to 85°C ; AR-B104C/8P: -20°C to 70°C.
- RoHS Compliance.

1.2 Package Contents

Check if the following items are included in the package.

- Quick Manual.
- AR-B104C-4P/AR-B104C-8P.
- 1 x Software Utility CD.

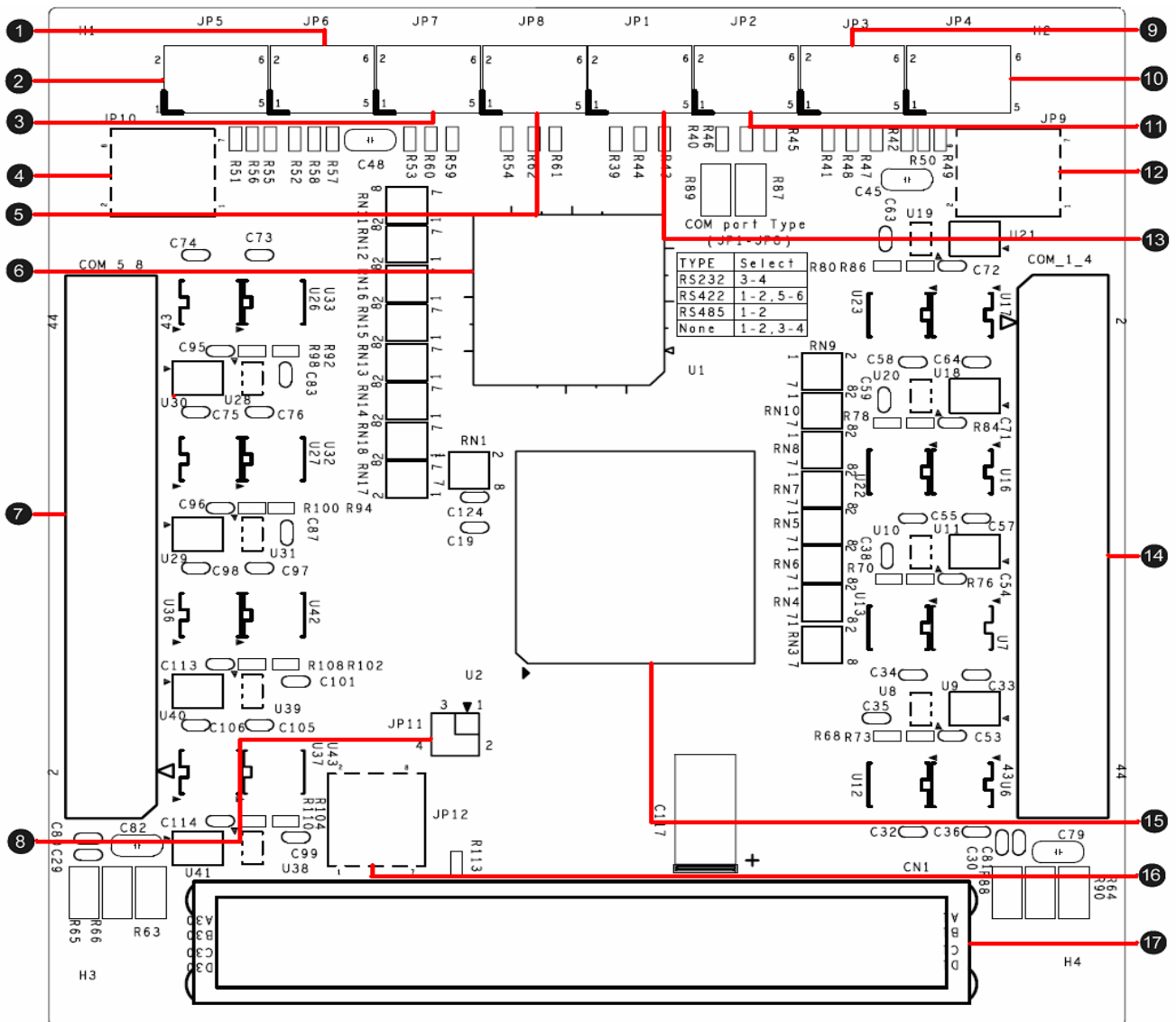
1.3 Block Diagram



2 AR-B104C H/W Information

This chapter describes the installation of AR-B104C. At first, it shows the function diagram and the layout of AR-B104C. It then describes the unpacking information which you should read carefully, as well as the jumper/switch settings for the AR-B104C configuration.

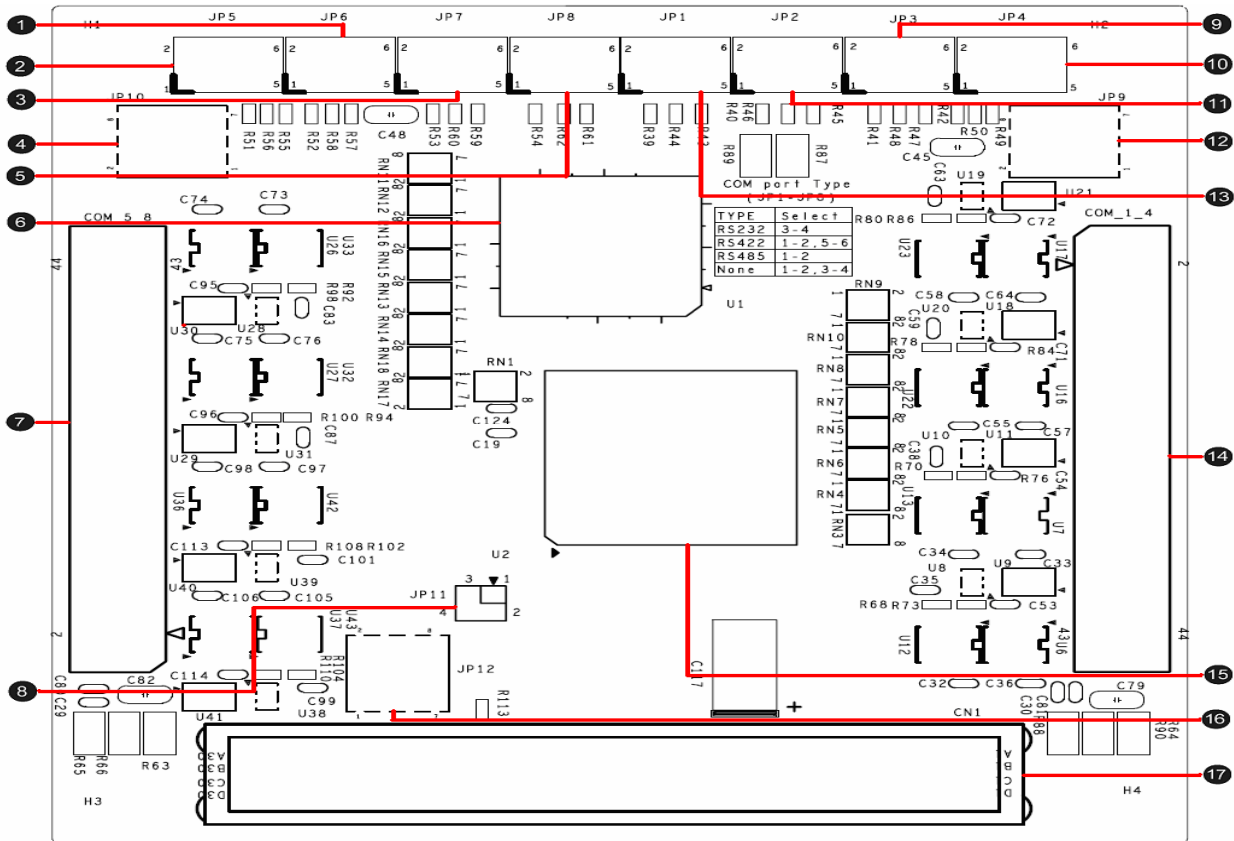
2.1 Locations (Top side)



①	JP6 COM6 transfer type select	⑩	JP4 COM4 transfer type select
②	JP5 COM5 transfer type select	⑪	JP2 COM2 transfer type select
③	JP7 COM7 transfer type select	⑫	JP9 COM1 ~ COM4 termination enable
④	JP10 COM5 ~ COM8 termination enable	⑬	JP1 COM1 transfer type select
⑤	JP8 COM8 transfer type select	⑭	COM 1~4 COM1 ~ COM4 output port
⑥	UART Controller 1 COM8 transfer type select	⑮	UART Controller 2 OXuPCI954 for COM1 ~ COM4
⑦	COM 5~8 COM5 ~ COM8 output port	⑯	JP12 PCI INT signal select
⑧	JP11 PCI Clock and IDSEL signal select	⑰	CN1 PCI 104 slot signal from M/B
⑨	JP3 COM3 transfer type select		


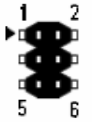


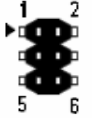
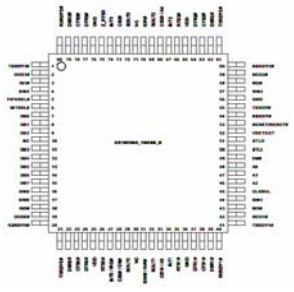
2.2 Connectors and Jumpers Setting


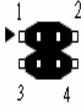

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①	JP6 COM6 transfer type select	⑩	JP4 COM4 transfer type select
②	JP5 COM5 transfer type select	⑪	JP2 COM2 transfer type select
③	JP7 COM7 transfer type select	⑫	JP9 COM1 ~ COM4 termination enable
④	JP10 COM5 ~ COM8 termination enable	⑬	JP1 COM1 transfer type select
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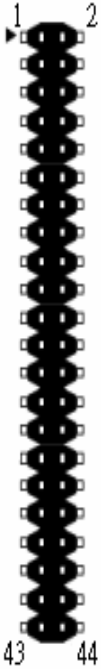
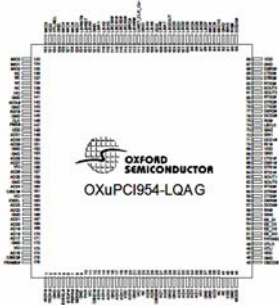
2.3 Connectors and Jumpers Pin Define

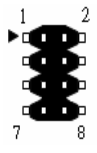
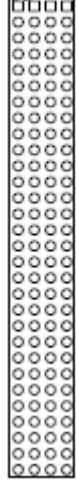
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	1	DCD_8	N/C	N/C																						
	2	DSR_8	Rx-_8	N/C																						
	3	RXD_8	Rx+_8	N/C																						
	4	RTS_8	N/C	N/C																						
	5	TXD_8	N/C	N/C																						
	6	CTS_8	Tx-_8	Data-_8																						
	7	DTR_8	N/C	N/C																						
	8	RI_8	Tx+_8	Data+_8																						
	9	GND	GND	GND																						
	10	+5V	+5V	+5V																						
	11	DCD_7	N/C	N/C																						
	12	DSR_7	Rx-_7	N/C																						
	13	RXD_7	Rx+_7	N/C																						
	14	RTS_7	N/C	N/C																						
	15	TXD_7	N/C	N/C																						
	16	CTS_7	Tx-_7	Data-_7																						
	17	DTR_7	N/C	N/C																						
	18	RI_3	Tx+_7	Data+_7																						
	19	GND	GND	GND																						
	20	+5V	+5V	+5V																						
	21	DCD_6	N/C	N/C																						
	22	DSR_6	Rx-_6	N/C																						
	23	RXD_6	Rx+_6	N/C																						
	24	RTS_6	N/C	N/C																						
	25	TXD_6	N/C	N/C																						
	26	CTS_6	Tx-_6	Data-_6																						
	27	DTR_6	N/C	N/C																						
	28	RI_6	Tx+_6	Data+_6																						
	29	GND	GND	GND																						
	30	+5V	+5V	+5V																						
	31	N/C	N/C	N/C																						
	32	N/C	N/C	N/C																						
	33	DCD_5	N/C	N/C																						
	34	DSR_5	Rx-_5	N/C																						
35	RXD_5	Rx+_5	N/C																							
36	RTS_5	N/C	N/C																							
37	TXD_5	N/C	N/C																							
38	CTS_5	Tx-_5	Data-_5																							
39	DTR_5	N/C	N/C																							
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41	GND	GND	GND																							
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43	N/C	N/C	N/C																							
44	N/C	N/C	N/C																							

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2.10 JP4 COM4 transfer type select		2.11 JP2 COM2 transfer type select		2.12 JP9 COM1 ~ COM4 termination enable																											
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2.13 JP1 COM1 transfer type select		2.14 COM 1~4 COM1~ COM4 output port		2.15 UART Controller 2 UART Controller for COM1~COM4																																																																																																																																																																																												
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2.16 JP12 PCI INT signal select		2.17 CN1 PCI 104 slot signal from M/B												
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3 OXuPCI954 Drive Installation Guide

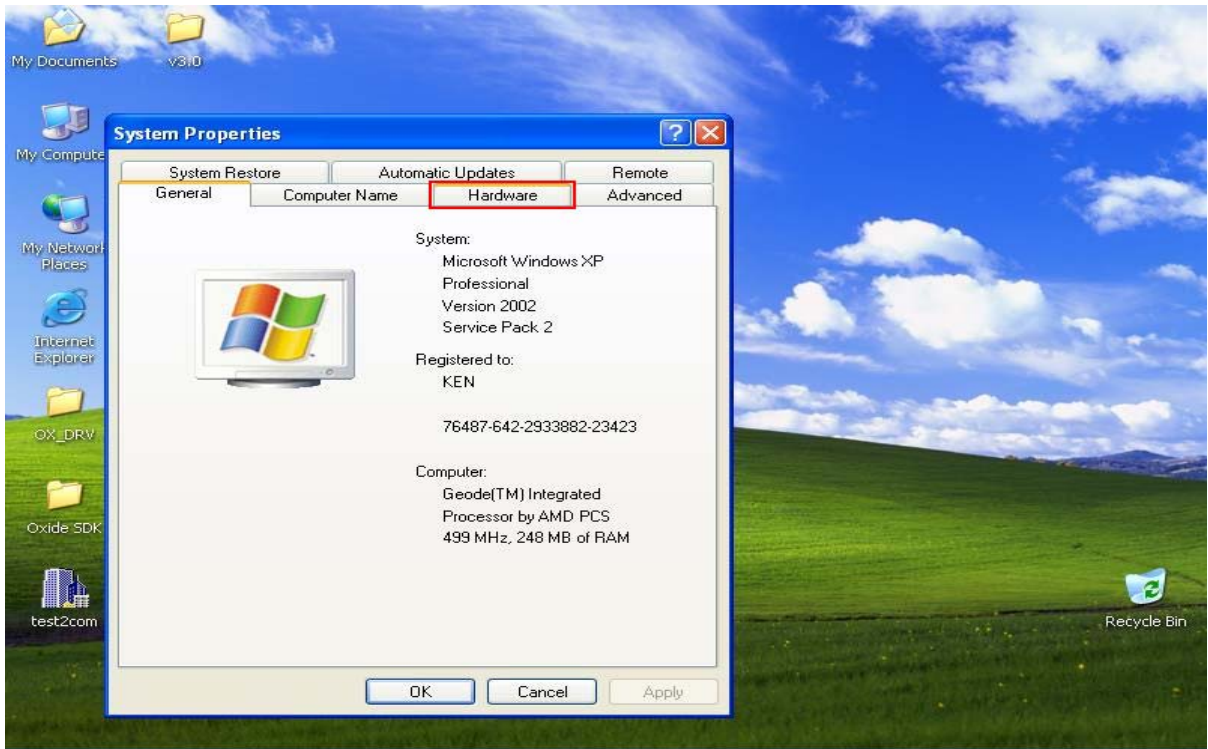
When you install the OXuPCI954 drivers in AR-B104C, you only need to install driver follow step1 to step9. If you want to adjust the COM port properties, you can follow step10 to step13 to adjust the COM port properties.

Installation Step :

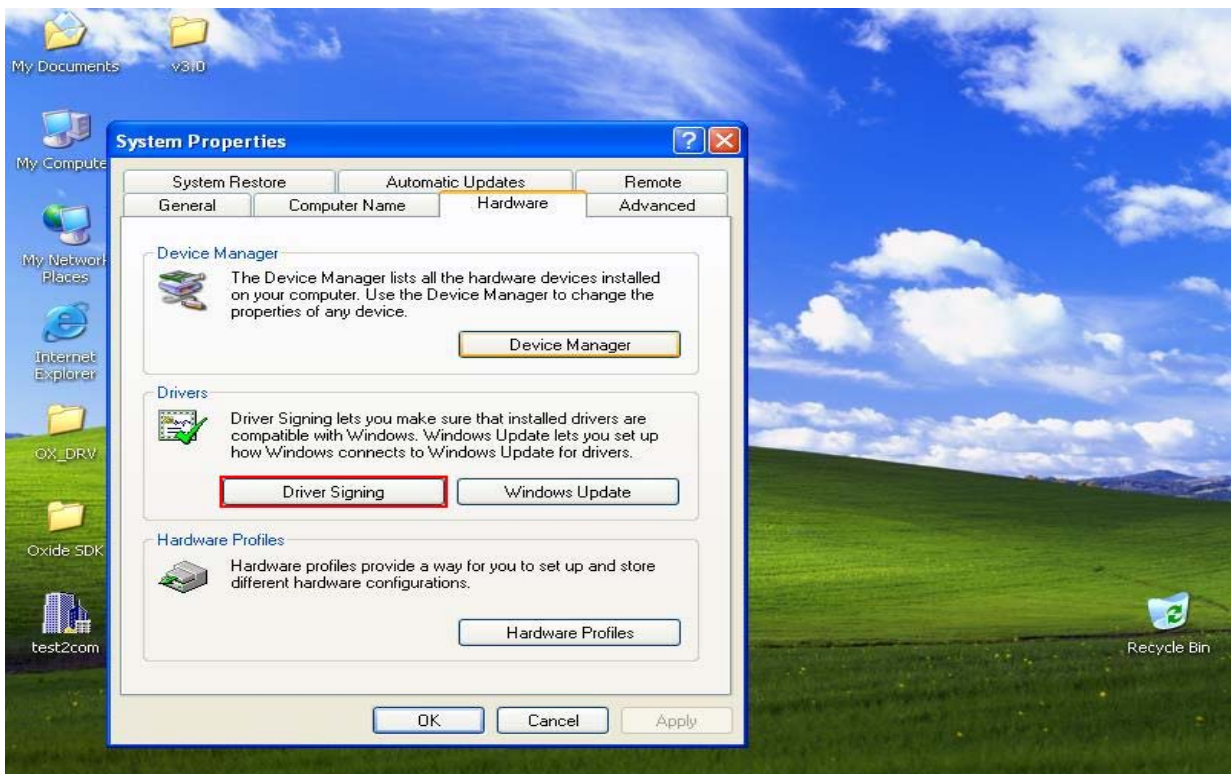
1. Click the right button of mouse on “My Computer” icon, the screen will show the function list then select the “Properties” function.



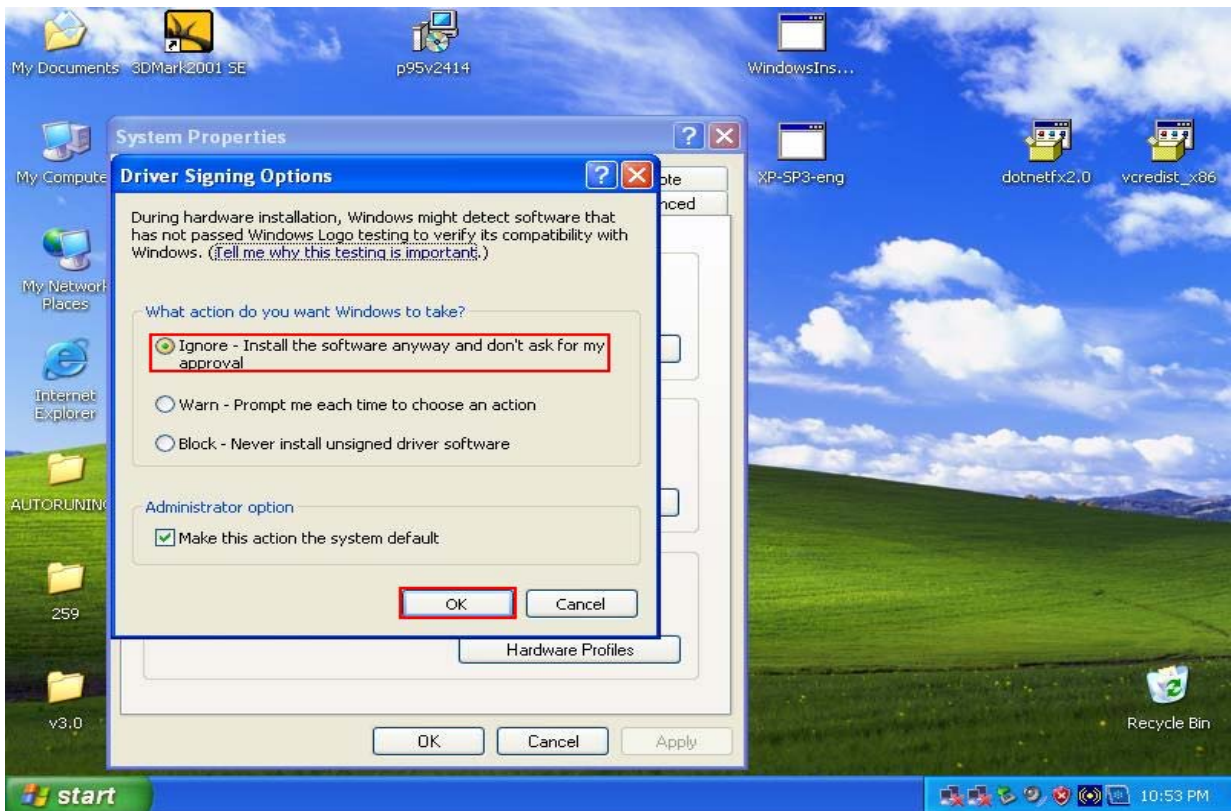
2. When “System Properties” appear on screen, select “Hardware” item.



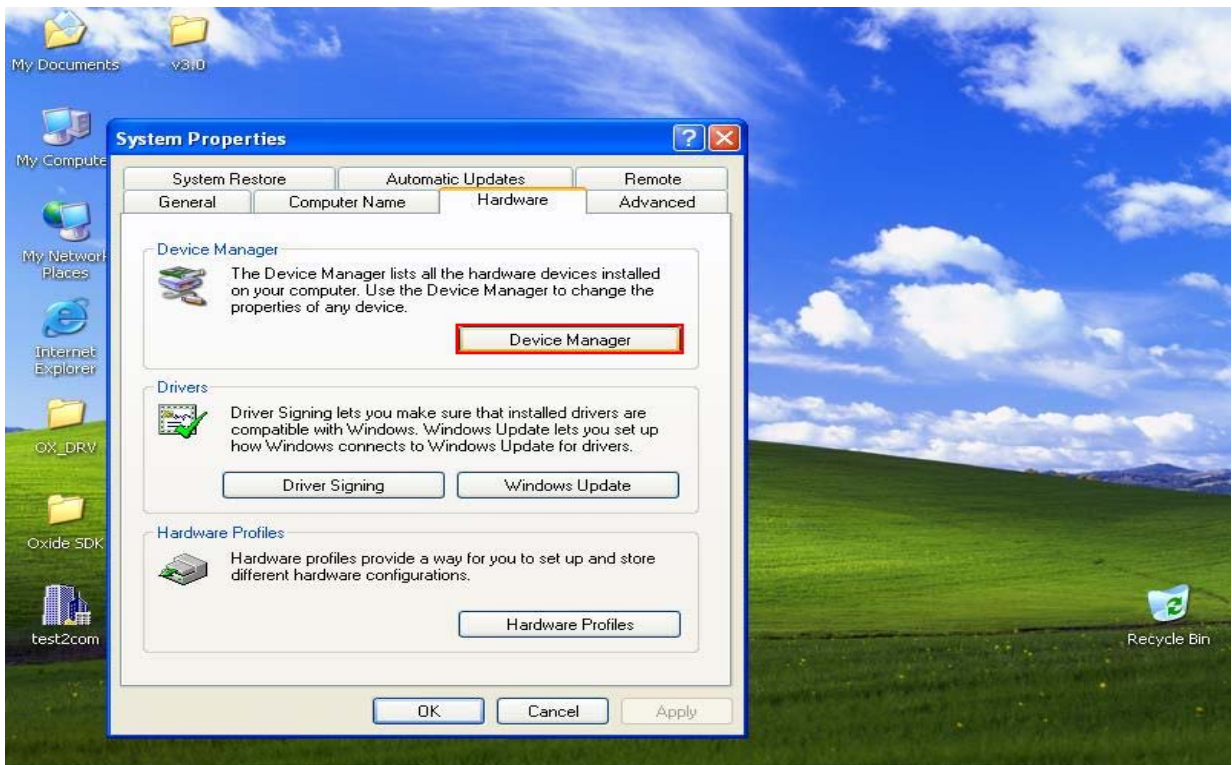
3. In “Hardware” Setting, select “Driver Signing” item, “Driver Signing Options” screen will appear.



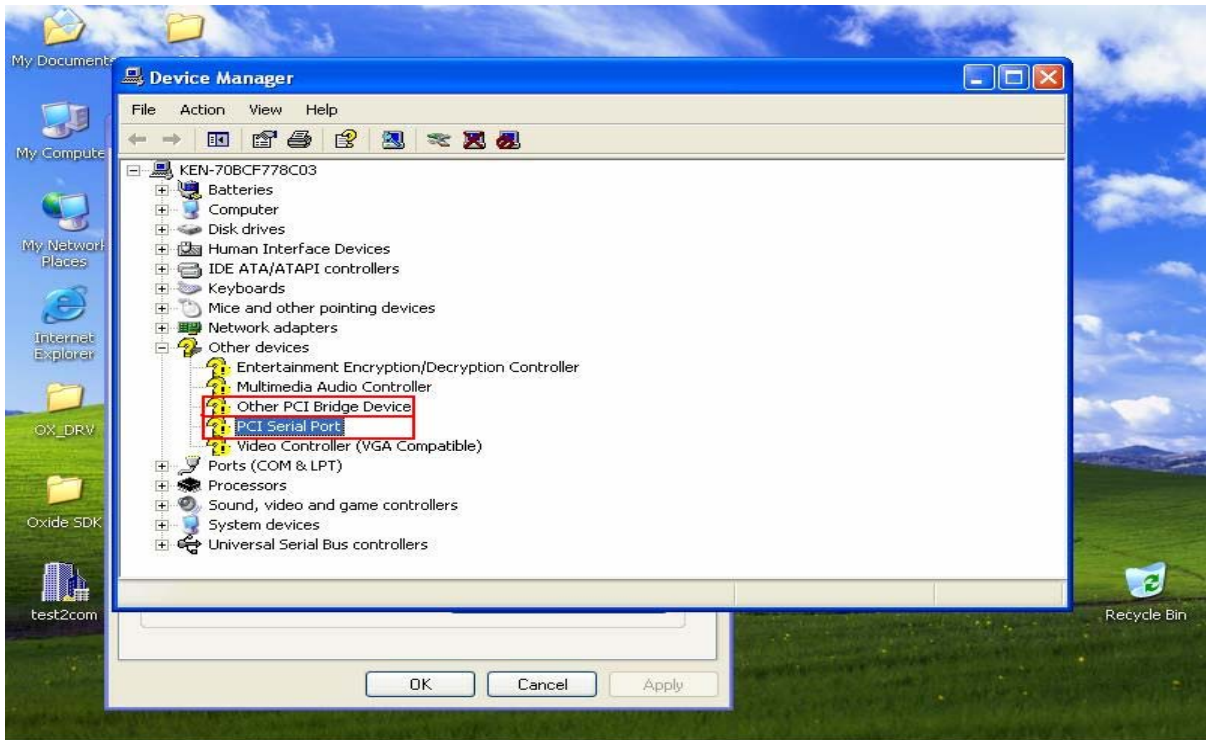
4. Select "Ignore" item, select "OK".



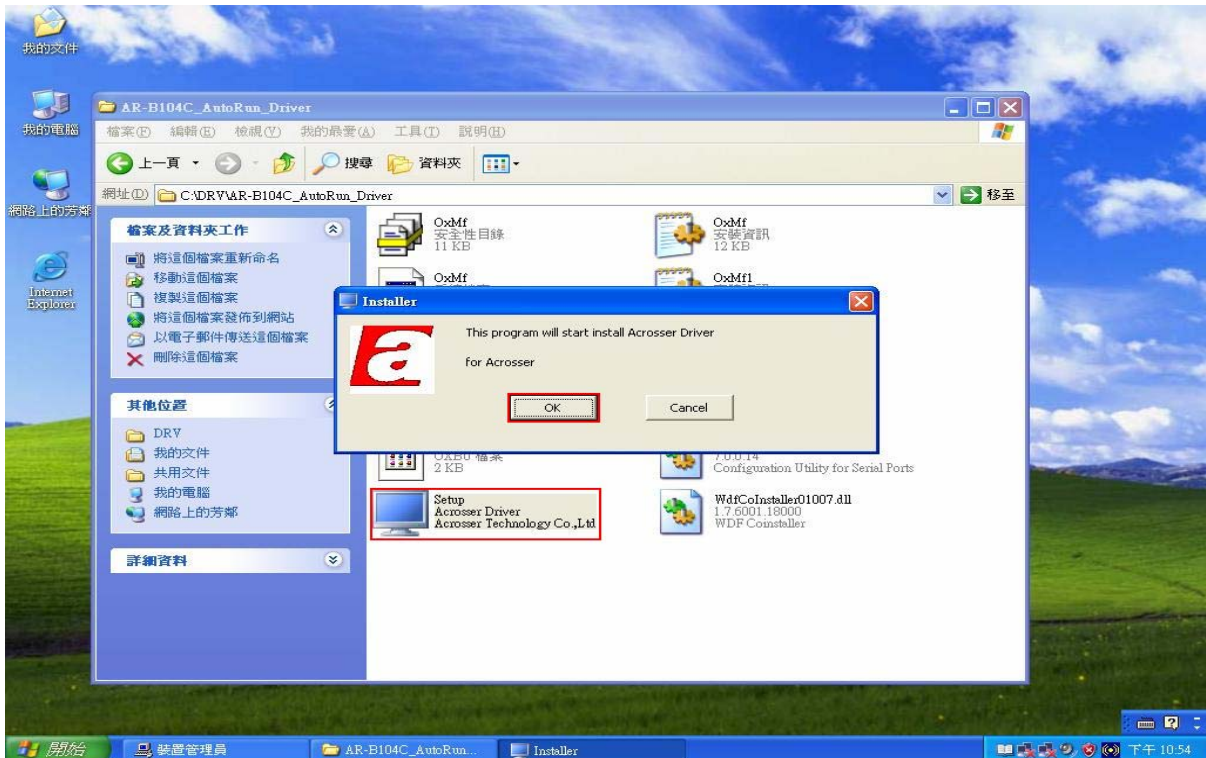
5. In "Hardware" Setting, select "Device Manager"



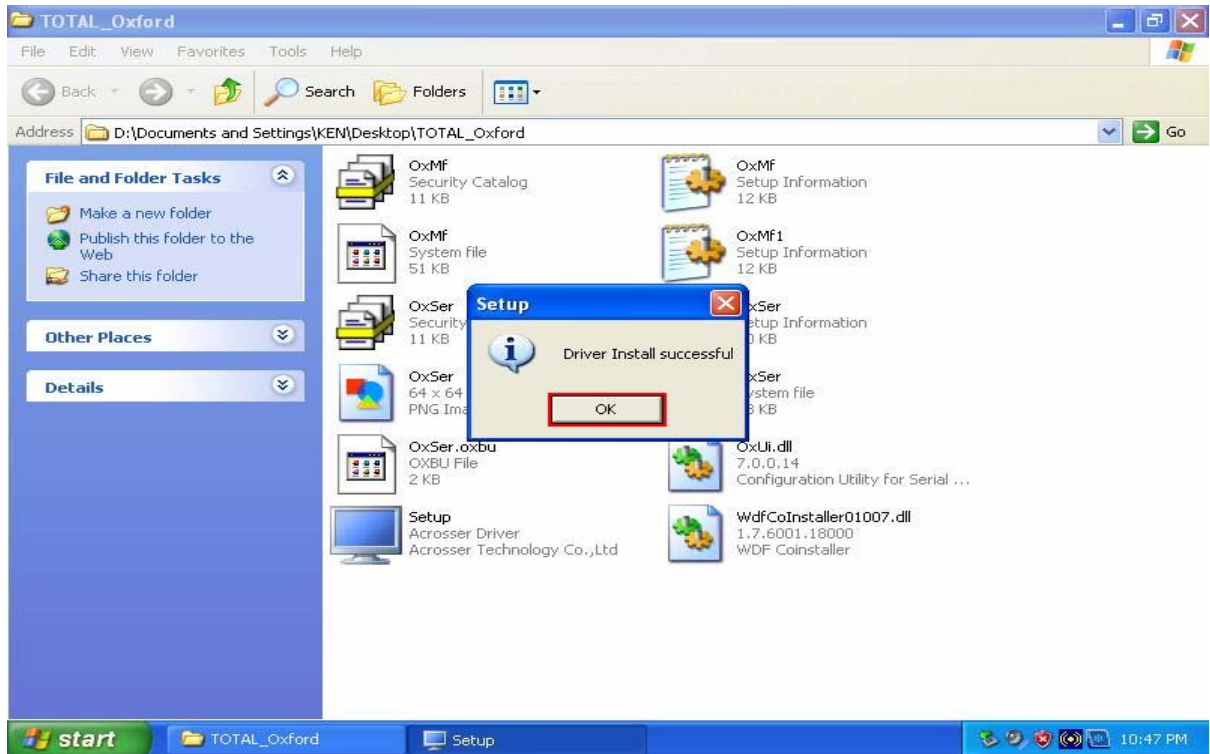
6. You must confirm “? PCI Serial Port” and “? Other PCI Bridge Device” device exist in system devices list (When you use AR-B104C/4P, only “? PCI Serial Port” exists).



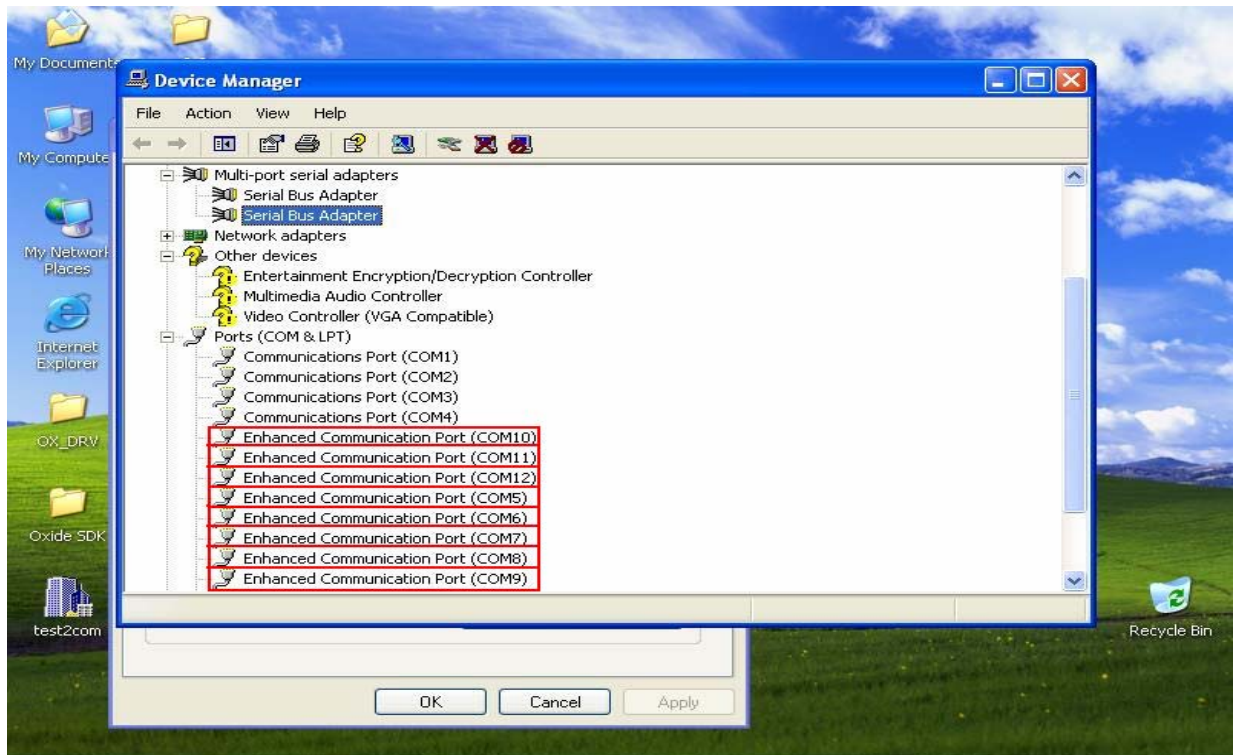
7. Now, execute the installation program of driver, then select “OK”, the OXuPCI954 driver will be auto installation.



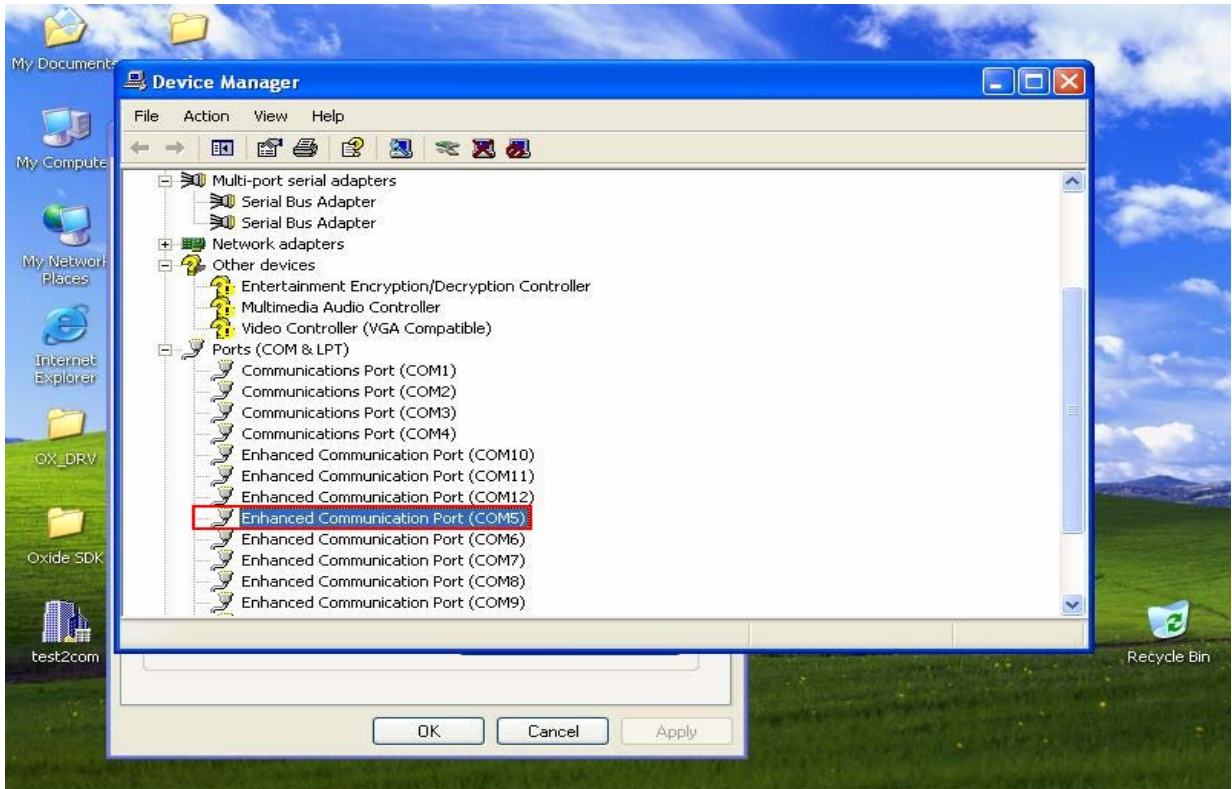
8. When the auto installation driver install finish, select “OK”.



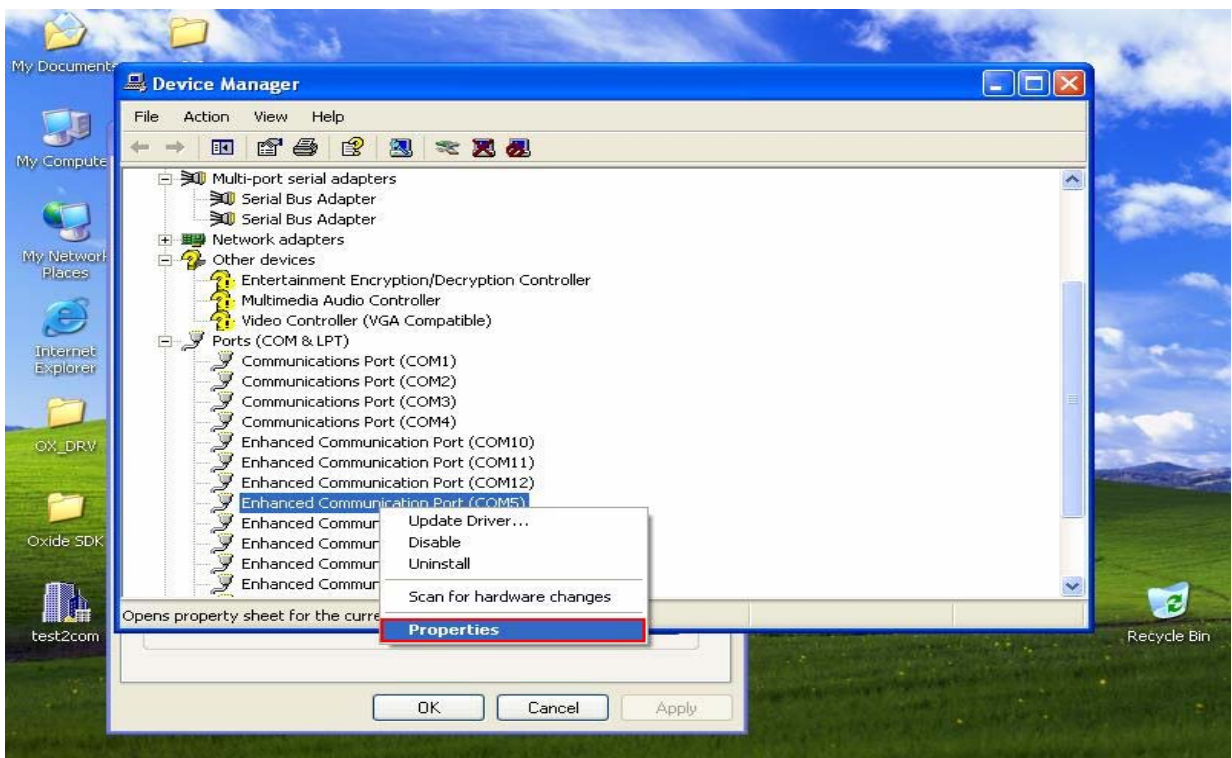
9. You can see 8 “Enhanced Communication Port” be added (When you use AR-B104C/4P, only 4 “Enhanced Communication Port” exist).



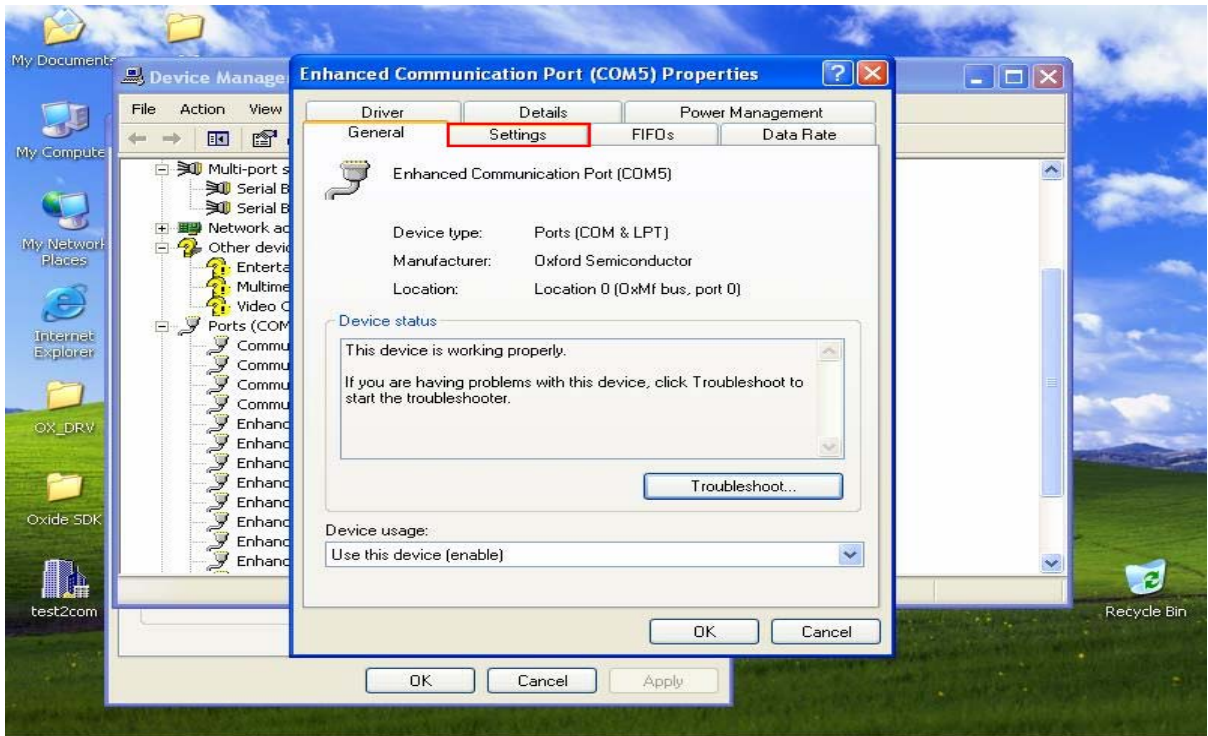
10. If you want adjust the COM port setting, click the right button of mouse on the COM port icon.



11. Select the “Properties” function.



12. When the COM Port icon Properties appear on screen, select “Settings” item.



13. When the properties of the COM Port icon appear on screen, select the item which you want to change, such as the sequence of the COM Port, if you setup the COM Port finish, select “OK”, the setting will be changed.

