

## Antaira Technologies

### MSC-204A1-S

RS-232 PCI Express Serial Card Expansion with Octopus Cable

## Quick Installation Guide

Version 1.0  
(June 2017)



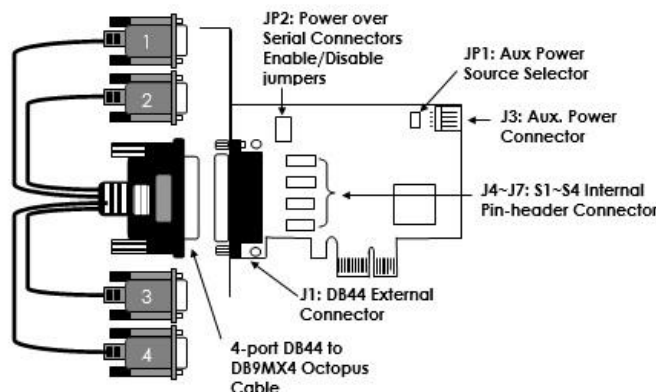
Tel: 1-844-268-2472  
Fax: 1-714-671-9944  
www.antaira.com

## Package Check List

The package contains the following items:

- 1- Quick Installation Guide
- 1- MSC-204A1-S

## Layout



## Product Overview

### System Interface/Performance

- Full x1 PCI Express throughput, 250Mbytes/sec
- Fully compliant with PCI Express Base Specifications, Revision 1.1
- Supports low profile form factor with short bracket
- 4 fully 16C1550 256-byte-FIFO high performance UARTs
- ±15kV IEC1000-4-2 ESD Protection for RS-232 I/O's
- Baud rate up to 921.6 Kbps in an asynchronous mode
- 256-byte deep FIFO per transmitter and receiver
- Supports 5V or 12V over pin-9 of DB9 connectors
- Software/Hardware Flow Control & Xoff Re-Transmit
- Supports Win98/ME, 2K, 2003, XP, Vista, Win 7, 8.x, 10, Linux, and Mac OS

### Operating Temperature

- Standard operating temperature model: 0°C ~ 55°C

### Installation

- PCIe Slot

## Jumper Settings

**JP2- External Power Enabler:** There are 4 jumpers that control the pin-9 signal of the 4 serial ports connectors (S1~S4) respectively. If the jumper(s) is at the “**DIS**” position (**factory default**), the pin-9 was connected with the RI signal as standard RS232 definition. If the jumper is at the “**PWR**” position, the pin-9 was connected with a power either from PCI Express slot or from Aux Power connector (J7). The

power source is controlled by JP4 jumper (see the following section).

**JP3- External Power Selector:** The pin-9 of the serial port connector will be supplied with DC5V or DC12V. There are 3 sources depending on the jumper's position of the JP4:

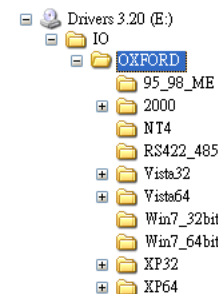
- **AUX5V: DC5V**, from J7, an optional power cable is required.
- **AUX15V: DC12V**, from J7, an optional power cable is required.
- **PCI12V (factory default):** DC12V, from PCI Express golden finger, no cable is required.

## Hardware Installation

1. Turn the system power OFF before installation.
2. Use static electricity discharge precautions.
3. Remove the chassis cover from your computer
4. Locate an unused PCI Express slot (typically white and small) and remove the corresponding slot cover from computer chassis.
5. Plug the I/O card to the unused PCI Express expansion slot and attach the I/O card bracket to the computer chassis screw.
6. Put the chassis cover back on the computer.
7. Turn ON the power of your computer and peripherals.
8. Proceed with Software Driver Installation.

## Software Installation

**PLEASE DO NOT LET WINDOWS AUTO SEARCH THE DRIVERS ON THE CD.** It will cause problems, because the INF files will conflict in this case. Instead, please browse for the correct location (folder) manually to make sure the correct drivers are chosen and installed correctly.



**Drivers are in each corresponding folder**

Note: Windows NT driver Installations

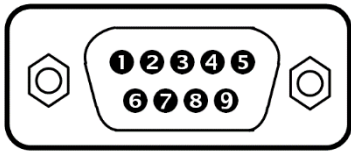
To install the Windows NT driver, please go into WinNT4 sub-directory and run (double click) Install\_Serial.exe to install all Serial Port Drivers.

## Installing Windows Drivers:

1. When the system is powered, Windows will invoke Windows' New Hardware Wizard. Click "Next" to continue. Select "Install from a list or specific location (Advanced)" and click "Next".
2. Select "Include this location in the search" then click "Browse" to specify the driver's location for your Windows (for example, XP is E:\IO\OXFORD\XP32) and click "Next" to continue.
3. Click "Next" to continue, and click "Finish" to complete the installation.
4. To check the Installation, right click on "My Computer" and choose "Manage". Choose "Device Manager" and double click "Ports".

## Software Installation

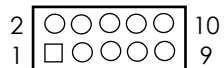
- **DB9(Male) on the 9-pin Flat Cable:**



Pin#	Signal	Pin#	Signal
1	DCD	6	DSR
2	RXD	7	RTS
3	TXD	8	CTS
4	DTR	9	RI (*)
5	GND		

**Note \*:** The pin-9 of the DB9 connector will output DC power if the corresponding jumper was enabled.

- **10-pin Header Connectors S1~S4 (J4,J6,J5,J7):**



Pin#	Signal	Pin#	Signal
1	DCD	6	DSR
2	RXD	7	RTS
3	TXD	8	CTS
4	DTR	9	RI (*)
5	GND	10	NC

**Note \*:** The pin-9 of the DB9 connector will output DC power if the corresponding jumper was enabled.

## Maintenance and Service Field

- If the device requires servicing of any kind, the user is required to disconnect and remove it from its mounting. The initial installation should be done in a way that makes this as convenient as possible.
- Please contact your dealer for any repair needed or follow the instructions within the manual.

## Warranty Policy

### Warranty Conditions

Products supplied by Antaira Technologies are covered in this warranty for sub-standard performance or defective workmanship. The warranty is not, however, extended to goods damaged in the following circumstances:

- (a) Excessive forces or impacts
- (b) War or an Act of God: wind storm, fire, flood, electric shock, earthquake
- (c) Use of unqualified power supply, connectors, or unauthorized parts/kits
- (d) Replacement with unauthorized parts

### RMA and Shipping Costs Reimbursement

Customers shall always obtain an authorized "RMA" number from Antaira before shipping the goods for repair or replacement.

- Within the warranty period (based on the invoice date), all parts and labor are free of charge to the customers.
- Customers are required to be responsible for the cost of parts and labor, if the products are out of warranty.
- For RMA service, customers are required to be responsible for the shipping expense for shipping the RMA unit(s) to Antaira; and Antaira will be responsible for the shipping expense by ground service for the return repair/replace unit(s) back to customers.

### Limited Liability

Antaira would not be held responsible for any consequential losses from using Antaira's product.

### Warranty Period

#### 5-Year Warranty

## Antaira's Customer Service and Support

- Antaira's Technical Service & Support Centers:
  - + 844-268-2472 (Antaira US Headquarter)
  - + 48-22-862-88-81 (Antaira Europe Office)
  - + 886-2-2218-9733 (Antaira Asia Office)
- Antaira's Web Sites & Repair/Support Emails:
  - [www.antaira.com](http://www.antaira.com) / [support@antaira.com](mailto:support@antaira.com)
  - [www.antaira.eu](http://www.antaira.eu) / [info@antaira.eu](mailto:info@antaira.eu)
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**\*Any changes will be announced on the Antaira website.**