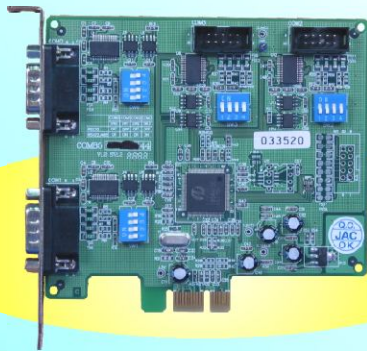


# Bridging the Gap between Real World and Computer

## COM8502/04/24/44 RS232/422/485 PCI Express x1 Communication Card



### Features

- Various selections:
  - RS-232 x2 (COM8502)
  - RS-232 x4 (COM8504)
  - RS-232 x2, 2 RS-422/485 (COM8524)
  - RS-232/422/485 x4 (COM8544)
- PCI Express x1 compliant
- 921.6 Kbps maximum baudrate for super fast data transmission
- 128-byte FIFO and on-chip H/W, S/W flow control
- Drivers provided for Windows (2000, XP and later x86 / x64)

### Introduction

The COM8502/04/24/44 is a 2/4-port PCI Express board designed for POS and ATM applications. The COM8502/4's 2/4 RS-232 serial ports, COM8524's 2 port RS232 and 2 port RS422/485 serial ports, COM8544's 4 port RS232/422/485 serial ports support a super fast 921.6 Kbps baudrate, and provide full modem control signals to ensure compatibility with a wide range of serial peripherals.

The COM8502/04/24/44 is compliant with x1 PCI Express slot. The COM8502/04/24/44 board only requires a 3.3 VDC power supply, which means that the board fits any host computer, ranging from shoebox to standard-sized PCs.

Reliable Windows COM drivers are provided for all COM boards.

### Applications

- POS, ATM
- Any RS232, RS422, RS485 compatible device to computer communication

### Ordering Information

- **COM8502** : 2 Port RS232 PCI Express x1 Communication Card
- **COM8504** : 4 Port RS232 PCI Express x1 Communication Card
- **COM8524** : 2 Port RS232 + 2 Port 422/485 PCI Express x1 Communication Card
- **COM8544** : 4 Port RS232/422/485 PCI Express x1 Communication Card
- **M27032509015** : D type 25P male - 2 x D type 9P male cable 15cm (COM8562 only)
- **M27033709015** : D type 37P male - 4 x D type 9P male cable 15cm (COM8564 only)
- **SM23410** : Extension kit for COM2,COM3 (bracket for 9P D type connector, 10P flat cable) (COM8504/24/44 only)

### Specifications

#### Hardware

- Controller chip : 16C550C compatible
- Bus : PCI Express x1
- Connector(s) : DB9 male x2/x4

#### Serial Interface

- Serial Standards : RS-232/422/485
- Number of Ports : 2/4
- Number of Boards : 4 per PC (max.)

#### Serial Communication Parameters

- Baudrate : 110 bps to 921.6 Kbps
- Data Bits : 5, 6, 7, 8
- Stop Bits : 1, 1.5, 2
- Parity : None, Even, Odd, Space, Mark
- Flow Control : None, Hardware, Xon / Xoff
- I/O Address : Assigned by BIOS
- IRQ : Assigned by BIOS

#### Serial Signals

- RS-232 : TXD, RXD, RTS, CTS, DTR, DSR, DCD, GND
- RS-422 : TXD+, TXD-, RXD+, RXD-, GND
- RS-485(2W) : D+, D-, GND
- RS-485(4W) : TD+, TD-, RD+, RD-, GND

#### Main Card General

- Power Requirement : 3.3Vdc
- Operation Temperature : 0 °C ~ +70 °C
- Storage Temperature : -20 °C ~ +80 °C
- Operation Humidity : 5~95% RH, non-condensing
- Dimensions : 114(W)\*104(H)mm, 4.5(W)\*4.1(H)in

### Pin Assignments

RS232		RS422		RS485(2W)		RS485(4W)	
DSR	6	1	DCD	NC	6	1	TD-
RTS	7	2	RXD	NC	7	2	TD+
CTS	8	3	TXD	NC	8	3	RD+
NC	9	4	DTR	NC	9	4	RD-
		5	GND	NC	5	5	GND
				NC			