



## Smartio CI-104J Series

**Easy-to-Use 4 Port RS-232 Board for POS Systems**

### Overview ■

The Smartio CI-104J series is designed for people looking for an easy-to-use four port serial board specifically designed for POS systems. This differentiates the CI-104J series from the C104H series. The CI-104J is a superior cabling space saver that features a built-in RJ45 bracket design to save cable layout space and to reduce cost, making it suitable for applications such as embedded systems, POS, Kiosk, ATM machines, and other PC-based embedded systems.

Other outstanding features of the CI-104J series, such as its state-of-the-art ASIC design and on-chip hardware flow control, guarantee a low repair rate and full data integrity, making the CI-104J highly reliable, and suitable for 24-hour service and transaction applications.

### Features ■

- Low repair rate with ASIC design
- Built-in RJ45 connectors on the bracket
- Delivers fastest data transmission available, with speeds up to 921.6 Kbps
- On-chip hardware flow control
- Available with ISA bus
- No switches or jumpers—easy to configure by software
- Surge protection available
- Works perfectly with all major Operating Systems

### Benefits ■

- Easy to use and very reliable
- Compact design size—perfect for PC-based embedded systems
- More layout flexibility, saving cabling space and cost

### Applications ■

- PC-based POS devices
- PC-based postal machines
- PC-based kiosks
- PC-based lottery machines
- Other embedded system applications

Ports Interface	1	2	4	8	16	32
RS-232			√			
RS-422						
RS-485						

## Specifications

### Hardware

I/O controller	16C550C or compatible x 4, each with a 16 byte Tx/Rx FIFO
Connector type	RJ45

### Interface

Bus	ISA (16 bit)
Serial	RS-232
No. of ports	4

### Performance

Speed	50 bps – 921.6 Kbps
Max. No. of ports	16 (4 boards)

### Configuration

Parity	None, even, odd, space, mark
Data bits	5, 6, 7, 8
Stop bits	1, 1.5, 2
IRQ	2 (9), 3, 4, 5, 7, 10 (Default), 11, 12, 15
I/O address	0x0000 – 0xFFFF, Default: 0x180

### OS Supported

CI-104J	Windows XP, Windows 2000, Windows NT, Windows 95/98/ME, Windows 3.x, DOS, AT&T UNIX SVR4.2, MITUX SVR4.2, Unix Ware SVR4.2, Unix Ware7 SVR5,
CI-104JS	SCO Open Server, SCO UNIX, SCO XENIX, Linux 2.0.x (Intel x86), Linux 2.0.x (Alpha), Linux 2.2.x (Intel x86), Linux 2.2.x (Alpha), Linux 2.4.x (Intel x86), QNX 4.2.x, FreeBSD

### Power and Environment

Power requirements	CI-104J:	79mA max. (-12V), 55mA max. (+12V), 100mA max. (+5V)
	CI-104JS#	83 mA max. (-12V), 57 mA max. (+12V), 100 mA max. (+5V)

Operating temp.	0 – 55°C
Operating Humidity	5 – 95%RH
Storage Temp.	-20 – 85°C
Dimensions	157 x 83 mm (W x D)
Surge Protection	CI-104JS : 25 KV ESD for serial port
Regulatory approvals	FCC, CE

## Ordering Information

CI-104J	<ul style="list-style-type: none"> <li>ISA bus, 4 port RS-232 board</li> </ul>
CI-104JS	<ul style="list-style-type: none"> <li>ISA bus, 4 port RS-232 board with surge protection</li> </ul>
All items include	<ul style="list-style-type: none"> <li>MOXA software CD-ROM: contains drivers, and MOXA PComm Lite serial comm development tool</li> <li>User's Manual</li> </ul>

### Optional Accessories

CN20030	150cm RJ45 to female DB25 RS-232 (DCE) cable
CN20040	150cm RJ45 to male DB25 RS-232 (DTE) cable
CN20060	150cm RJ45 to male DB9 RS-232 (DTE) cable
CN20070	150cm RJ45 to female DB9 RS-232 (DCE) cable



® **Moxa Technologies Co., Ltd. (Headquarters)**  
 Fl.4, No.135, Lane 235, Pao-Chiao Rd., Shing Tien City, Taipei, Taiwan, R.O.C.  
 Tel:+886-2-8919-1230 Fax:+886-2-8919-1231  
 info@moxa.com.tw

**USA**  
**Moxa Networking, Inc.**  
 Tel:+1-732-738-4303 Fax:+1-732-738-4884  
 info@moxa.com

**Germany**  
**Moxa Technologies GmbH**  
 Tel:+49 2405-462766 Fax:+49 2405-462799  
 info@moxatech.de

**China**  
**Moxa Tech Beijing, Inc.**  
 Tel:+86-10-6872-3960/61 Fax:+86-10-6872-3958  
 moxa@moxa.com.cn