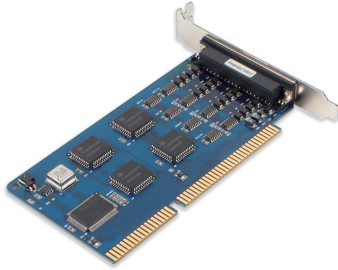# C104H/HS

4-port RS-232 ISA serial boards

PComm **Lite**

> Cost-effective, compact ISA boards with 4 RS-232 ports
> 921.6 kbps maximum baudrate for super fast data transmission
> 16-byte FIFO and on-chip H/W, S/W flow control
> Drivers provided for Windows, Windows XP Embedded, DOS, Linux 2.4, Linux 2.6, QNX 4/6, FreeBSD, SCO OpenServer, UnixWare 7, Solaris 10
> Easy configuration, without switches or jumpers

RoHS ☒ CE FC

: Overview

The 4-port C104H/HS ISA boards offer users an economical, high performance multiport serial communication solution for connecting terminals, modems, printers, data acquisition equipment, and other serial devices to a PC. The boards are a top choice of industrial automation engineers and system integrators, and support many different operating systems, including Windows, Linux, and even Unix. In addition, each of the 4 RS-232 ports supports a super fast 921.6 kbps baudrate.

: Specifications

Hardware
Comm. Controller: 16C550C or compatible x 4
Bus: 16-bit ISA
Connector: DB37 female

Serial Interface
Number of Ports: 4
Serial Standards: RS-232
Max. No. of Boards per PC: 4

Serial Line Protection
ESD Protection: 25 kV on the board (C104HS only)

Performance
Baudrate: 50 bps to 921.6 kbps

Serial Communication Parameters
Data Bits: 5, 6, 7, 8
Stop Bits: 1, 1.5, 2
Parity: None, Even, Odd, Space, Mark
I/O Address: 0x0000-0xFFFF (default = 0x180)
IRQ: 2 (9), 3, 4, 5, 7, 10 (default), 11, 12, 15

Serial Signals
RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND

Operating Systems
Windows Real COM Drivers: Windows 95/98/ME/NT/2000, Windows XP/2003/Vista/2008/7/8/8.1 (x86/x64), Windows 2008 R2/2012/2012 R2 (x64), Windows 3.x, DOS, Windows Embedded CE 5.0/6.0, Windows XP Embedded

Fixed TTY Drivers: QNX 6, SCO OpenServer, UnixWare 7, Solaris 10, FreeBSD
Linux Real TTY Drivers: Linux 2.4.x, 2.6.x
Note: Please refer to Moxa's website for the latest driver support information.

Physical Characteristics
Dimensions: 83 x 157 mm (3.27 x 6.18 in)

Environmental Limits
Operating Temperature: 0 to 55°C (32 to 131°F)
Storage Temperature: -20 to 85°C (-4 to 185°F)
Ambient Relative Humidity: 5 to 95% (non-condensing)
Altitude: Up to 2000 m
Note: Please contact Moxa if you require products guaranteed to function properly at higher altitudes.

Standards and Certifications
EMC: CE, FCC
EMI: EN 55022, FCC Part 15 Subpart B Class A
EMS: EN 61000-4-2, EN 61000-4-3, EN 61000-4-4
Green Product: RoHS, CRoHS, WEEE

MTBF (mean time between failures)
Time: 629,545 hrs
Database: MIL-HDBK-217F, GB 25°C

Power Requirements
Power Consumption: 100 mA max. @ +5 V, 100 mA max. @ +12 V, 60 mA max. @ -12 V

Warranty
Warranty Period: 5 years
Details: See www.moxa.com/warranty

: Ordering Information

Available Models
C104H: 4-port RS-232 ISA serial board
C104H-DB9M: 4-port RS-232 ISA serial board (includes DB9 male cable)
C104H-DB25M: 4-port RS-232 ISA serial board (includes DB25 male cable)
C104HS: 4-port RS-232 ISA serial board with surge protection
C104HS-DB9M: 4-port RS-232 ISA serial board with surge protection (includes DB9 male cable)
C104HS-DB25M: 4-port RS-232 ISA serial board with surge protection (includes DB25 male cable)

Connection Options (can be purchased separately)
CBL-M37M9x4-30: DB37 male to DB9 male x 4 connection cable, 30 cm
CBL-M37M25x4-30: DB37 male to DB25 male x 4 connection cable, 30 cm

Package Checklist
- 1 C104H or C104HS board
- DB9 male or DB25 male connection cable
- Documentation and software CD
- Quick installation guide (printed)
- Warranty card