

# 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, 2.6, 3, QNX 4/6, FreeBSD, SCO OpenServer, UnixWare 7, Solaris 10
- > Easy configuration, without switches or jumpers



### 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 they support many different operating systems, including Windows, Linux, and even Unix. In addition, each of the 4 RS-232 ports supports a superfast 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

#### 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

#### Physical Characteristics

**Dimensions:** 83 x 157 mm (3.27 x 6.18 in)

#### Driver Support

**Windows:** 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

**Linux:** Linux 2.4.x, 2.6.x, 3.x

**Unix-like Systems:** QNX 6, SCO OpenServer, UnixWare 7, Solaris 10, FreeBSD

*Note: Please refer to Moxa's website for the latest driver support information.*

#### 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)

#### Standards and Certifications

**EMC:** EN 55022/24

**EMI:** CISPR 22, FCC Part 15B Class B

#### EMS:

IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV

IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m

IEC 61000-4-4 EFT: Power: 1 kV; Signal: 0.5 kV

IEC 61000-4-5 Surge: Power: 2 kV

IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m

IEC 61000-4-8 PFMF

IEC 61000-4-11

#### MTBF (mean time between failures)

**Time:** 629,545 hrs

**Standard:** MIL-HDBK-217F

#### Power Requirements

**Input Current:** 100 mA @ +5 VDC; 100 mA @ +12 VDC; 60 mA @ -12 VDC

#### Warranty

**Warranty Period:** 5 years

**Details:** See [www.moxa.com/warranty](http://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 (CBL-M37M9x4-30 cable included)

**C104H-DB25M:** 4-port RS-232 ISA serial board (CBL-M37M25x4-30 cable included)

**C104HS:** 4-port RS-232 ISA serial board with surge protection

**C104HS-DB9M:** 4-port RS-232 ISA serial board with surge protection (CBL-M37M9x4-30 cable included)

**C104HS-DB25M:** 4-port RS-232 ISA serial board with surge protection (CBL-M37M25x4-30 cable included)

#### Connection Options (one cable is included with each board)

**CBL-M37M9x4-30:** M37 to 4 x DB9-M cable, 30 cm

**CBL-M37M25x4-30:** M37 to 4 x DB25-M cable, 30 cm

#### Package Checklist

- 1 C104H or C104HS board
- 1 connection cable (optional)
- Documentation and software CD
- Quick installation guide (printed)
- Warranty card