

# C168H/HS

## 8-port RS-232 ISA serial boards



PCComm Lite

- > Compact ISA boards with 8 RS-232 ports
- > 921.6 kbps maximum baudrate for super fast data transmission
- > 16-byte FIFO and on-chip H/W flow control
- > Choose from a wide range of connection cables and boxes
- > 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



### Overview

The 8-port C168H/HS ISA boards offer users a basic, 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 8 RS-232 ports supports a super fast 921.6 kbps baudrate.

### Specifications

#### Hardware

**Comm. Controller:** 16C550C or compatible x 8  
**Bus:** 16-bit ISA  
**Connector:** DB62 female

#### Serial Interface

**Number of Ports:** 8  
**Serial Standards:** RS-232  
**Max. No. of Boards per PC:** 4

#### Serial Line Protection

**ESD Protection:** 25 kV on the board (C168HS only)  
**Electrical Isolation:** 500 V with connector Opt8F (must be purchased separately)

#### 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), 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:** 93 x 157 mm (3.66 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:** 601,501 hrs  
**Database:** MIL-HDBK-217F, GB 25°C

#### Power Requirements

**Power Consumption:** 170 mA max. @ +5 V, 100 mA max. @ +12 V, 160 mA max. @ -12 V

#### Warranty

**Warranty Period:** 5 years  
**Details:** See [www.moxa.com/warranty](http://www.moxa.com/warranty)

### Ordering Information

#### Available Models

**C168H:** 8-port RS-232 ISA serial board  
**C168HS:** 8-port RS-232 ISA serial board with surge protection

#### Connection Options (can be purchased separately)

**Choose from a wide selection of cables and boxes:** See page 10-41 for details

#### Package Checklist

- 1 C168H or C168HS board
- Documentation and software CD
- Quick installation guide (printed)
- Warranty card