

POS-104UL

4-port RS-232 Universal PCI boards with power over serial



- > Over 800 kbps data throughput, for top performance
- > Power options for each port: 5V (output), 12V (output), and RI (input)
- > Serial port power from bus or power supply
- > 921.6 kbps maximum baudrate for super fast data transmission
- > 128-byte FIFO and on-chip H/W, S/W flow control
- > Compatible with 3.3/5V PCI and PCI-X
- > Low profile board, suitable for compact-sized PCs
- > Drivers provided for a broad selection of operating systems, including the latest Windows and Linux
- > 15 kV ESD protection on the board
- > Wide temperature model available for -40 to 85°C environments



Introduction

The POS-104UL is a smart, 4-port Universal PCI serial board designed for POS and ATM applications and for use by industrial automation system manufacturers and system integrators. The POS-104UL is compatible with all major operating systems. In addition, each of the 4

RS-232 serial ports supports data rates up to 921.6 kbps, and provides full modem control signals to ensure compatibility with a wide range of serial peripherals. The POS-104UL supplies 5 or 12 volts of power to each serial port, and works with both 3.3V and 5V PCI buses, making it suitable for installation in most PC servers.

Specifications

Hardware

Comm. Controller: MU860 (16C550C compatible)

Bus: 32-bit Universal PCI

Connector: DB44 female

Serial Interface

Number of Ports: 4

Serial Standards: RS-232

Max. No. of Boards per PC: 4

Serial Line Protection

ESD Protection: 15 kV on the board

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

Flow Control: RTS/CTS, XON/XOFF

I/O Address: Assigned by BIOS

IRQ: Assigned by BIOS

Serial Signals

RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND, RI (optional)

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: 64.4 x 120 mm (2.53 x 4.72 in)

Environmental Limits

Operating Temperature:

Standard Models: 0 to 55°C (32 to 131°F)

Wide Temp. Models: -40 to 85°C (-40 to 185°F)

Storage Temperature: -40 to 85°C (-40 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 B

EMS: EN 61000-6-2, EN 61000-6-4, IEC 61000-4-2, IEC 61000-4-3

Green Product: RoHS, CRoHS, WEEE

MTBF (mean time between failures)

Time: 2,124,022 hrs

Database: Telcordia (Bellcore), GB

Power Requirements

Power Consumption: 145 mA @ +5 V

Power Output (per port): 1 A @ 5 V, 1 A @ 12 V

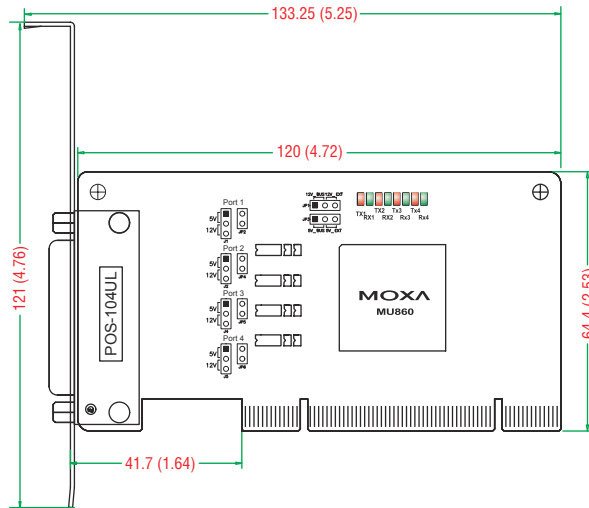
Warranty

Warranty Period: 5 years

Details: See www.moxa.com/warranty

Dimensions

Unit: mm (inch)



Ordering Information

Available Models

POS-104UL-DB9M: 4-port RS-232 low profile Universal PCI board with serial port power, 0 to 55°C operating temperature (DB9 male cable included)

POS-104UL-T: 4-port RS-232 low profile Universal PCI board with serial port power, -40 to 85°C operating temperature

Package Checklist

- 1 POS-104UL board
- Low profile bracket
- DB9 male cable (POS-104UL-DB9 only)
- Documentation and software CD
- Quick installation guide (printed)
- Warranty card

Connection Options (can be purchased separately)

CBL-M44M9x4-50 (POS)



PIN	RS-232
1	DCD
2	RxD
3	TxD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	5V/12V/RI

DB9 male

