

POS-104UL Series

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



Features and Benefits

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

Certifications



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 it works with both 3.3 V and 5 V PCI buses, making it suitable for installation in most PC servers.

Specifications

Serial Interface

Comm. Controller	16C550C compatible
Baudrate	50 bps to 921.6 kbps
Bus	32-bit Universal PCI
Connector	DB44 female
Data Bits	5, 6, 7, 8
Flow Control	None, RTS/CTS, XON/XOFF
Max. No. of Boards per PC	8
No. of Ports	4
Parity	None, Even, Odd, Space, Mark
Serial Standards	RS-232
Stop Bits	1, 1.5, 2

Serial Signals

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

Windows Drivers	DOS, Windows 95/98/ME/NT/2000, Windows XP/2003/Vista/2008/7/8/8.1/10 (x86/x64), Windows 2008 R2/2012/2012 R2 (x64), Windows Embedded CE 5.0/6.0, Windows XP Embedded
Linux Drivers	Linux kernel 2.4.x, Linux kernel 2.6.x, Linux kernel 3.x, Linux kernel 4.x, Linux kernel 5.x
UNIX Drivers	Solaris 10, UnixWare 7, SCO OpenServer 5, SCO OpenServer 6

Power Parameters

Output Power Rating	1 A @ 5 V, 1 A @ 12 V (per port)
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Physical Characteristics

Dimensions	64.4 x 120 mm (2.53 x 4.72 in)
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Environmental Limits

Operating Temperature	POS-104UL-DB9M: 0 to 55°C (32 to 131°F) POS-104UL-T: -40 to 85°C (-40 to 185°F)
Storage Temperature (package included)	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)

Standards and Certifications

EMC	EN 61000-6-2/-6-4
EMI	EN 61000-6-4, 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: 10 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV IEC 61000-4-5 Surge: Power: 2 kV IEC 61000-4-6 CS: 150 kHz to 80 MHz: 10 V/m; Signal: 10 V/m IEC 61000-4-8 PFMF
Green Product	RoHS, CRoHS, WEEE

MTBF

Time	2,124,022 hrs
Standards	Telcordia (Bellcore) Standard TR/SR

Warranty

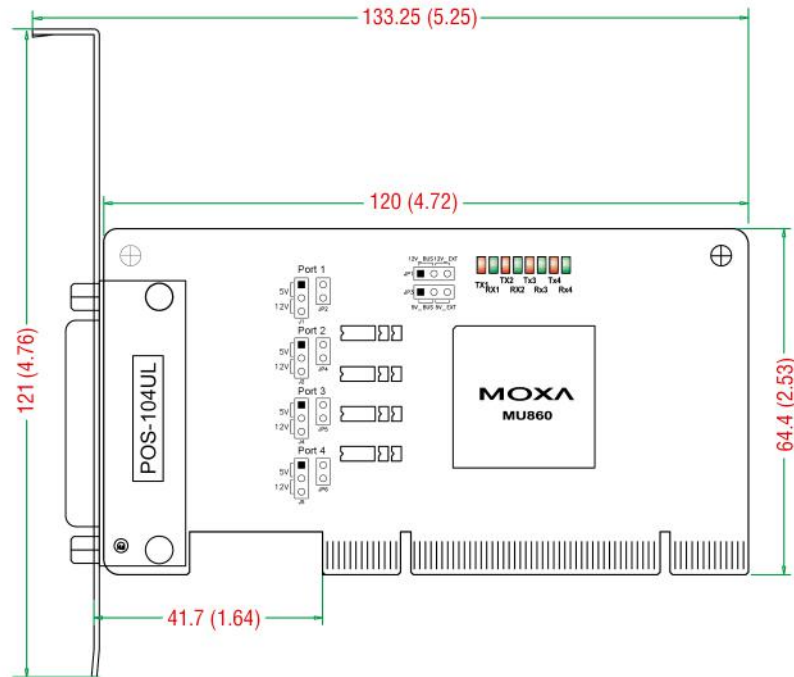
Warranty Period	5 years
Details	See www.moxa.com/warranty

Package Contents

Device	1 x POS-104UL Series serial board
Cable	POS-104UL-DB9M: 1 x M44 to 4 x DB9-M cable, 50 cm
Documentation	1 x quick installation guide 1 x substance disclosure table 1 x warranty card

Dimensions

Unit: mm (inch)



Ordering Information

Model Name	Serial Standards	No. of Serial Ports	Operating Temp.	Included Cable
POS-104UL-DB9M	RS-232	4	0 to 55°C	CBL-M44M9x4-50
POS-104UL-T	RS-232	4	-40 to 85°C	-

Accessories (sold separately)

Brackets

149000001000	Bracket for DB44 pack
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Cables

CBL-F9M9-150	DB9 female to DB9 male serial cable, 1.5 m
CBL-F9M9-20	DB9 female to DB9 male serial cable, 20 cm
CBL-M44M9x4-50 (POS)	M44 to 4 x DB9 male serial cable, 50 cm

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