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

CE FC

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)

MOXA®
Reliable Networks ▲ Sincere Service
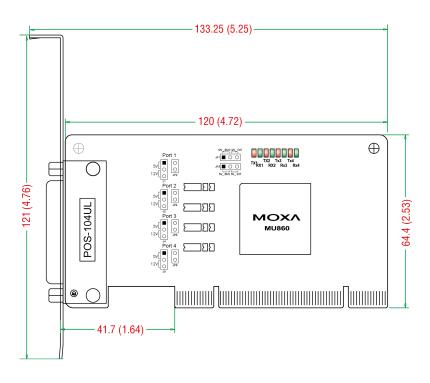
Serial Software Features

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
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)

Physical Characteristics

Dimensions	64.4 x 120 mm (2.53 x 4.72 in)

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)
Ambient Relative Humidity	5 to 95% (non-condensing)

Standards and Certifications

EMC	EN 55032/24
EMI	CISPR 32, 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

1490000001000	Bracket for DB44 pack

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 cable, 50 cm

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