SerialPulseX USB232A-E-A

Industrial USB to RS-232 Adapter | 9 Signal Status LEDs | Prolific PL2303-GC

EN

Rev: 1.0 | 2026-11-09

OVERVIEW

The Tittron SerialPulseX USB232A-E-A is an industrial USB to RS-232 adapter built for reliable serial communication between legacy RS-232 hardware and modern PCs. It replaces the earlier USB232A-B and adds clear visual diagnostics for every key serial signal line.

Engineered for industrial automation, telecom equipment and hardware repair, this USB serial dongle works with modems, barcode scanners, PLCs and diagnostic tools. Its standout feature is a full set of nine status LEDs mapped directly to RS-232 pins, letting engineers spot transmit, receive and handshake activity without extra serial monitoring software.

The adapter supports baud rates from 5 bps up to 921.6 kbps. It is bus-powered, plug-and-play friendly and compatible with Windows, macOS and Linux, ideal for field technicians and embedded developers performing serial debugging.



SerialPulseX USB232A-E-A
USB-A to DB-9 RS-232 Industrial Serial Adapter

KEY FEATURES

- SerialPulseX industrial USB to straight-through RS-232 serial adapter
- Wide baud rate: 5 bps up to 921.6 kbps
- Nine dedicated RS-232 signal status LEDs for visual debugging
- USB bus-powered; no external power supply needed
- Dual upstream / downstream 512-byte FIFO buffers
- Supports remote wake-up and standard serial flow control
- Cross-platform support for Windows, macOS and Linux

IMPORTANT NOTES

The nine LED indicators correspond to individual RS-232 signal pins including GND. The GND LED will not illuminate, as ground serves as the reference potential and carries no active switching signal. This set of indicators greatly speeds up debugging without additional serial monitoring tools.

Driver installation may be required on older operating systems. Modern OS releases often include native support for the Prolific PL2303-GC chipset.

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TECHNICAL SPECIFICATIONS

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SPECIFICATIONS

INTERFACE

Interface	USB Type-A to DB-9 RS-232
Interface Standard	USB 1.1 / USB 2.0, RS-232C
Chipset	Prolific PL2303-GC
Max Baud Rate	921.6 kbps
FIFO Buffer	512 Bytes
Power	USB bus-powered

SERIAL PARAMETERS

Data Bits	5, 6, 7, 8
Stop Bits	1, 1.5, 2
Parity	Odd, Even, Mark, Space, None
Flow Control	None, Xon/Xoff, RTS/CTS, DTR/DSR

ENVIRONMENTAL

Operating Temperature	0°C to 60°C
Storage Temperature	-20°C to 80°C
Humidity	0 ~ 65% RH

COMPLIANCE

Certifications	CE, RoHS, FCC, REACH, UKCA

SUPPORTED OPERATING SYSTEMS

WINDOWS

Windows 7, 8.1, 10, 11	Prolific PL2303-GC VCP driver
Windows Server 2008 R2, 2012 R2, 2016, 2019, 2022	Prolific PL2303-GC VCP driver

MACOS

macOS 10.11, 10.15, 11, 12, 13, 14	Prolific PL2303-GC driver

LINUX

Linux Kernel 2.6.x and newer, LTS releases	Native kernel PL2303 driver

Note: Some operating systems ship with native PL2303 support. Older versions may require manual installation of the official Prolific VCP driver. The adapter uses straight-through RS-232 wiring.