

# USB400

## Serial RS422 / RS485 to USB bus adapter



Screwdriver  
included

- RS422 & RS485 serial interface
- Speed up to 921.6 Kbps, full duplex
- RS485 automatic line direction control
- Support for 4-wire RS422/RS485 and 2-wire RS485
- 2 LEDs for independent TxD & RxD signaling
- Host bus powered
- Hot "Plug & Play", USB 1.1 full speed (2.0 compatible)
- Standard COM ports full compatible
- 15 KV ESD protection and HF filtering
- Robust & compatible aluminium case (dongle), CE standards



## Introduction

The new range of serial to USB solution offers performance, simplicity of installation, security, robustness and high reliability at affordable prices.

USB400 is enclosed in a compact aluminum case (dongle format), it features an industrial 2-4 wire RS422 / RS485 serial interface with 5-point screw-in terminal block.

USB400 installation is quite simple as the product is instantly plug & play, it doesn't require any IRQ, DMA or I/O port resources.

Installed serial ports are considered by Windows 9x, Windows 2000, Windows XP & Linux operating systems as computer's standard COM ports.

## Technical characteristics overview

<b>Interfaces</b>	One RS422 / RS485 asynchronous serial ports for USB bus
<b>RS signals</b>	RS422 mode: A, A', B, B' & GND - RS485 mode: AA', BB' & GND
<b>Format</b>	Asynchronous 5, 6, 7 or 8 bits per character 1, 1½, 2 stop bits Even, odd, mark, space or no parity
<b>Data rate</b>	From 50 to 921.6 Kbps
<b>FIFOS</b>	32 bytes
<b>Hand-shake</b>	Hardware hand-shake (RTS/CTS) and/or software hand-shake (XON/XOFF) with automatic line direction control in the RS485 mode.
<b>RS connectors</b>	5-point screw-in terminal block
<b>Protection</b>	15KV ESD protection with HF signal filtering, industrial CE conformity
<b>Signaling</b>	2 LEDs to monitor TxD & RxD signals activity, one LED for power supply
<b>Power supply</b>	Powered from USB bus
<b>Operating systems</b>	Windows 9x, Windows 2000, Windows XP, Linux 2.4 & 2.6
<b>Consumption</b>	0.4 W maximum
<b>Configuring</b>	« Plug & Play » equipment, quick & easy Windows installation, RS422 / RS485 mode, polarization and line termination are switches configurable.
<b>EMC</b>	NF EN 55022 residential emission, NF EN 61000-6-2 industrial immunity
<b>Environment</b>	Operating temperature from -5°C to +65°C, storage -40°C à +80°C, 0 to 95% relative humidity without condensation
<b>Installation</b>	« Dongle » format, shipped with a 2 meter A/B type USB cable
<b>Dimensions &amp; weight</b>	73 mm (L) x 25 mm (W) x 21 mm (H), 36 g
<b>Accessories</b>	Screwdriver to screw-in the RS422/485 cable in the terminal block

## Ordering references

USB400	One RS422 / RS485, USB bus powered, shipped with 2 m A/B type USB cable
--------	---

*All the brand names mentioned in this document are trademarks. ACKSYS is constantly looking at ways to improve its products. The current specifications may therefore be modified without notice and the characteristics set out herein should not be construed as creating any contractual obligation. All the products featured herein are designed and manufactured in Europe.*