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Find the *National Instruments USB-485* at our website: ***Click HERE***

Serial Instrument Control Interfaces for USB

NI USB-232 Series, NI USB-485 Series

- Compatible with standard PC serial port
- 1, 2, and 4-port versions
- Handle RTS/CTS hardware handshake lines
- 128 B transmit and receive FIFOs
- 5,6,7, or 8 data bits

NI USB-485

- RS-485 or RS-422 interface
- 460.8 kb/s maximum transfer rate
- Communicates with up to 31 devices
- Automatic transceiver-control mode for 2-wire RS-485 devices
- Software-selectable biasing
- Cable lengths up to 1.2 km (4,000 ft)

NI USB-232

- RS-232 interface
- 230.4 kb/s maximum transfer rate
- Software-selectable DTE or DCE transceiver modes (2 and 4-port models only)

Operating Systems

Windows 2000/XP

Recommended Software

- LabVIEW™
- LabWindows™/CVI™
- Measurement Studio™

Other Compatible Software

- C/C++
- Visual Basic
- Any package with the Microsoft serial driver interface

Driver Software (included)

- NI-Serial

New



Overview

The National Instruments USB-232 and USB-485 transform your Universal Serial Bus (USB) port into asynchronous serial ports for communication with serial devices. The NI USB-232 and USB-485 are available in either 1, 2, or 4-port versions and use standard RS-232, RS-422, or RS-485 communications. All products include driver software for Windows 2000/XP. You can install and use the USB-232 and USB-485 as standard serial ports from your existing applications or with applications written with NI-VISA.

Additionally, the USB-232 2 and 4-port versions feature software-selectable DTE or DCE transceiver modes, as well as an automatic transceiver detection mode, or Auto232. The USB-485 features software selectable biasing; therefore, you can turn biasing on and off for each port through software.

Development environments, such as Visual Basic, Visual C++, and Excel, as well as National Instruments LabVIEW, LabWindows/CVI and Measurement Studio, can access the serial ports using standard serial I/O functions.

INFO CODES

For more information or to order products online, visit *ni.com/info* and enter:

usb232
usb485

BUY ONLINE!

Specifications

FIFO size	128 B
Maximum transfer rate	460.8 kb/s (RS-485); 230.4 kb/s (RS-232)
USB connector (1 port)	captive cable with USB series A plug
USB connector (2 and 4 port)	USB standard series B connector
Serial connectors	DB-9
Noise emissions	Class A
Power Requirements	
5 VDC (from USB)	USB-232 (100 mA typ, 200 mA max), USB-232/2 (200 mA typ, 500 mA max), USB-232/4 (300 mA typ, 500 mA max), USB-485 (175 mA typ, 500 mA max) USB-485/2 (300 mA typ, 500 mA max),
+12 VDC (from supply furnished)	USB-485/4 (225 mA typ, 500 mA max)
Operating Environment	
Ambient temperature	0 to 70 °C
Relative humidity	10 to 90%, noncondensing
Storage Environment	
Ambient temperature (1 port)	-40 to 80 °C
Ambient temperature (2 and 4 port)	-40 to 85 °C
Relative humidity	10 to 90%, noncondensing
Electrostatic Discharge Protection	
Case contact and air discharge	±4 kV
RS-232 and RS-435 data lines	±15 kV (HBM)

Ordering Information

Model	Serial Port	Number of Ports	Part Number
NI USB-232	RS-232	1	778472-01
NI USB-232/2	RS-232	2	778473-02
NI USB-232/4	RS-232	4	778473-04
NI USB-485	RS-485/RS-422	1	778475-01
NI USB-485/2	RS-485/RS-422	2	778476-02
NI USB-485/4	RS-485/RS-422	4	778476-P4*

*External 12 VDC power supply included

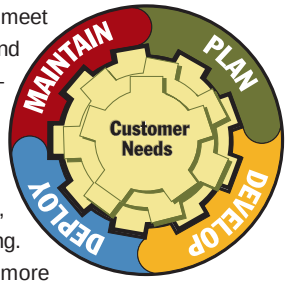
P = Power Cord Type

0 = U.S. 120 VAC
2 = Swiss 220 VAC
3 = Australian 240 VAC
4 = Universal Euro 240 VAC
5 = North American 240 VAC
6 = United Kingdom 240 VAC

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