

Model Information



■ Main Features

- 1 x RS232/422/485 port
- Mini PCI Express interface (USB 2.0)
- Serial port ESD protected
- Full length PCI Express Mini card
- Jumperless, DIP ports configuration
- Serial speed max. 1000(RS232) / 3000(RS485) kbps
- Powered by Mini PCI Express slot
- Wide range operating temperature (-25°C - +75°C)

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USB-COM Plus mPCIe

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■ More Pictures



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■ Overview

USB-COM Plus mPCIe provides easy serial port expansion for any system with a full-length Mini PCI Express slot connecting to high speed RS232 or RS422/485 devices. The Mini PCIe card uses USB 2.0 signals as provided on the slot. It is fully ESD and surge protected and bus powered withstanding a wide temperature range to cope with harsh operating conditions.

Flexible Three-Way Serial Ports

The serial port allow different operating modes - easy configured via the front DIP switch - to fully support RS232, RS422 and RS485 protocols. Differential line termination for RS485 (120Ω) is controlled just by choosing the appropriate operating mode. High/Low biasing resistors are not needed, so hassle-free usage is available for the user.

Com Port Drivers are available for Windows, Linux and Mac OS X. A configuration tool allows easy access to special Windows driver options.

High Speed

USB 2.0 full speed connection allows serial data rates of up to 3Mbps for RS422/485 and 921.6kbps for RS232 mode. Every non-standard bitrate (e.g. 500kbps) can be easy set up in the range up to 960 kbps.

Expanding countless computing systems

Mini PCI Express slots are present in various Industrial Computers, modern SBCs, Laptops and more. If there is space for the DSub-9 connector and cabling, this product is applicable as serial port expansion.

■ USB Interface

USB-Input

USB 2.0 Full Speed, on Mini PCI Express Slot

Power

Powered by Mini PCI Express slot, max. 120 mA @ 3.3V (400mW)

Circuits

FTDI FT231XS

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No. of Ports/Type	1 x RS232/422/485 configured by DIP switch
Connector	DB-9 male
Protection	16kV ESD surge protection
Operating Modes	<ul style="list-style-type: none"> • RS232 • RS422 full duplex (120Ω on/off) • RS485 4 wire, full duplex (120Ω on/off) • RS485 2 wire, half duplex (120Ω on/off)
Configuration	One DIP switch sets the operating mode and RS422/485 termination No High/Low biasing resistors needed
Signals	<ul style="list-style-type: none"> • RS232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, RI, GND • RS422: Tx+/-, Rx+/-, GND • RS485 4-wire: Tx+/-, Rx+/-, GND • RS485 2-wire: Data+/-, GND
RS485 Data Direction Control	ARTc (Automatic Receive Transmit control)
Data Bits	7, 8
Stop Bits	1, 2
Parity	None, Even, Odd, Mark, Space
Flow Control	RTS/CTS, XON/XOFF
Baudrate	<ul style="list-style-type: none"> • RS232: 180bps - 921.6/1000kbps • RS422: up to 3Mbps • RS485: up to 3Mbps
LEDs	TxD/RxD for each port

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Drivers	<ul style="list-style-type: none"> • Windows 2000 to Windows 10 (x86 and x64) • Windows Server 2000 to 2016 (x86 and x64) • Linux (Kernel 3.4 and later built-in) • Mac OS X
Installation	The driver is already installed (Linux), or installs by automatic Download after Device connection (Windows).

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Input Voltage	3.3V (Mini PCI Express)
Power Consumption	max. 120mA, 400mW
Connector	Mini PCI Express Slot, bus powered

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Weight	20 g
Dimensions	30×51×3 mm ³ (W×L×H), Form-Factor long Mini PCI Express

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Operating Temp	-25°C - 75°C
Storage Temp	-30°C - 85°C
Ambient Humidity	5-95% non condensing

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Declarations	CE, FCC
EMI	<ul style="list-style-type: none"> • EN 55022 Class B • 47 CFR FCC Part 15 Subpart B

EMS (EN 55024)

- EN 61000-4-3: Radiated RFI
- EN 61000-4-4: Electrical Fast Transient
- EN 61000-4-5: Surge
- EN 61000-4-6: Induced RFI
- EN 61000-4-8: Power Frequency Magnetic Field
- EN 61000-4-11: Power supply dips

ESD

EN 61000-4-2 4kV contact 8kV air for Serial Port

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available soon

Standard

Telcordia (Bellcore) Standard; RelCalc. 5.0 BELL-7

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2 years

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USB-COM Plus mPCIe

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DB9F-to-TB/5Pins for free wiring option

6061DB9F-to-RJ45 for changing from DB9 to CAT5 wiring
(Optimised for RS422/485 operating modes)**6062**RJ45-to-DB9M for changing back from CAT5 to DB9 wiring
(Required to match the DB9 pinout at USB-COM Plus mPCIe)**661**

Serial Null-Modem adapter 9PF-9PF, change male to female

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- USB-COM Plus mPCIe card
- Connection cable to Adapter
- DB9 Adapter

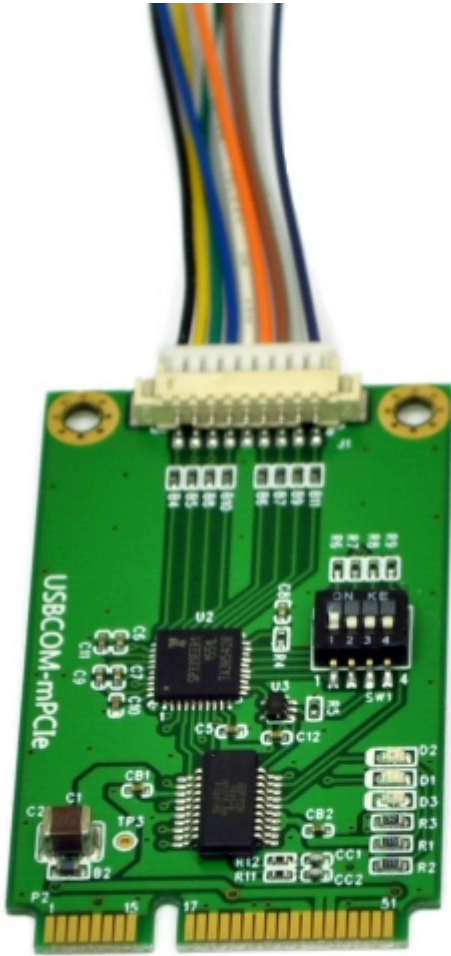
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USB-COM Plus Configurator

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VScom USB-COM Plus Configurator

File Help

Present COM-Ports Show disconnected devices

COM3
COM4
COM6

Port Settings

Min. Read Timeout (ms): Serial Enumerator

Min. Write Timeout (ms): Serial Printer

Polling Period: Cancel If Power Off

Latency Timer: Event On Surprise Removal

Set RTS On Close

Disable Modem Ctrl At Startup

Default Settings

Optimize for USB-COM

Optimize for USB-CAN

Baud Rate Mappings

Buffered Writes

Rename COM Port

Global Settings

Ignore Hardware Serial Number

Reload Driver

Refresh OK Cancel Apply

Close All Ports

VScom USB-COM 232, SN: DN6NP3AA, ID: 4036015, LocalID: 31; Open COM Ports: 0

Terminal Block Adapter

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