

High Speed USB 2.0 Serial Adapters

4 or 8 independent serial ports

Models ESU2-100, ESU2-400, QSU2-100, QSU2-400

B+B SMARTWORX

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PRODUCT FEATURES

- Standard serial power via USB 2.0 without replacing peripherals or application software
- RS-232 or software selectable RS-232/422/485
- USB 2.0 (compatible with USB 1.1)
- Plug-and-play compatibility
- Devices enumerate themselves as standard COM ports
- Speeds up to 921.6 kbps
- High-speed UARTS with 1KB FIFOs boost data rates
- Full modem, hardware and software flow control
- Bus powering – no external power required

Connect and broaden the range of external peripherals on your computer with these USB 2.0 high speed serial adapters. The USB 2.0 standard has more bandwidth allowing higher data rates on serial ports for greater efficiency. USB 2.0 is fully compatible with USB 1.1 devices. Older devices work with the new bus, and vice versa.

These USB serial adapters give your laptop or workstation the ability to communicate between a USB port and up to eight RS-232, RS-422, or RS-485 serial peripherals. The USB serial adapters enumerate themselves as standard COM ports via the USB connection and are compatible with new and legacy RS-232 or RS-232/422/485 devices and the software created for them. The adapters support data rates up to 921.6 kbps, 1024-byte FIFO and hardware/software flow control.

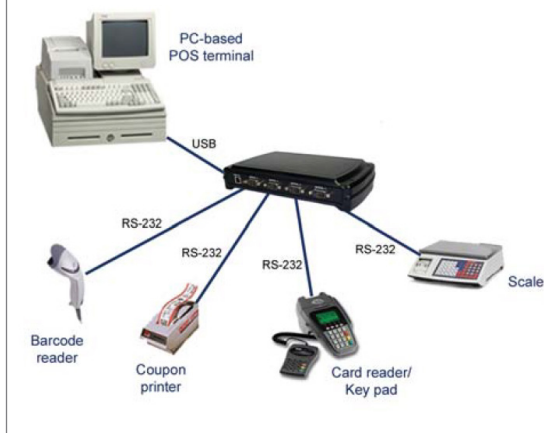
400 Series Models feature software-selectable RS-232/422/485 MEI ("Multi-Electrical Interface"). MEI capability is available on all ports at the click of a mouse. LEDs visually tell you which ports are using which protocol – so go ahead, mix and match.

These USB serial adapters are the ideal solution for a variety of industries and applications including banking, retail and industrial automation where PCs have a significantly shorter lifecycle than the peripherals that use them.

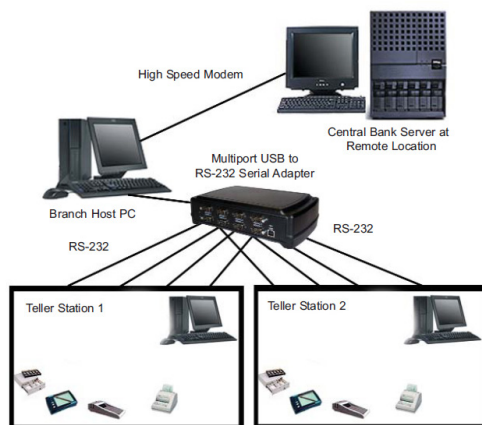
ORDERING INFORMATION

MODEL NUMBER	PORTS	INTERFACE	SOFTWARE SELECTABLE?
QSU2-100	4	RS-232 with cable	-
QSU2-400	4	RS-232/422/485 with cable	Yes
ESU2-100	8	RS-232 with cable	-
ESU2-400	8	RS-232/422/485 with cable	Yes

Retail Application



Banking Application



All product specifications are subject to change without notice.

ESU2-QSU2_100-400_4-8port_2917ds

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High-Speed USB 2.0 Serial Adapters

4 or 8 independent serial ports

Models ESU2-100, ESU2-400, QSU2-100, QSU2-400



ESU2-400



QSU2-100

SPECIFICATIONS

SERIAL TECHNOLOGY

Serial Connectors	QSU2-100/400 = 4 ports (DB9 male) ESU2-100/400 = 8 ports (DB9 male)
Serial Port Configuration <i>Models QSU2-400 & ESU2-400 only</i>	Each port is independently configurable as RS-232, RS-422 or RS-485 for full-duplex or half-duplex communication)
Data Rate	Up to 921.6 kbps (maximum)
UARTS	1024-byte FIFOs for Transmit and Receive
Transceiver (RS-232/422/485)	MAX491 or compatible

USB TECHNOLOGY

USB Connector	QSU2-100/400 = 1 port (USB Type A Male) ESU2-100/400 = 1 port (USB Type A Male)
Bus Interface	2.0 and 1.1 Compatible

INPUT/OUTPUT

Differential Driver Output	50Ω Load: +2V (minimum), +3.3V (maximum) 27Ω Load: +1.5V (minimum), +3.3V (maximum)
High Input	+2.0V (minimum)
Low Input	+0.8V (maximum)
Driver Rise/Fall Time	5ns (minimum), 20ns (typical), 25ns (maximum)
Driver Input-to-Output Delay	20ns (minimum), 40ns (typical), 60ns (maximum)
Receiver Input-to-Output Delay	40ns (minimum), 70ns (typical), 100ns (maximum)
RS-232 Output	Voltage Range: +/-5V (minimum), +/-5.4V (typical) Voltage Range: -15V (minimum), +15V (typical)
RS-232 Input	Threshold Low: 0.6V (minimum), 1.0V (typical) Threshold High: 2.4V (minimum), 1.5V (typical)

SPECIFICATIONS - continued

POWER

Source	Bus-powered; no external power supply required
Suspend Power	<500 mA
Unconfigured Power	<100 mA
Configured Power	<500 mA

SOFTWARE

OS Support	Windows 2000, XP, Linux
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MECHANICAL

Dimensions	QSU2-100/400 = 9.18L x 5.25W x 1.675H (inches) ESU2-100/400 = 9.18L x 5.25W x 2.363H (inches)
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ENVIRONMENTAL

Operating Temperature	0 to 70 °C
Storage Temperature	-50 to 80 °C
Humidity	10 to 90%

REGULATORY

Certifications	FCC Class B, CE, RoHS, WEEE Compliant
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MECHANICAL DIAGRAM - QSU2-100 & QSU2-400

