

## USB Single Port Serial Adapters

Upgrade to USB connectivity without replacing peripheral hardware or application software



### Connect serial peripherals with USB Single Port Serial Adapters

Quatech USB Single Serial Port Adapters are easily configured to enable the continued use of legacy devices without making any changes to the applications written for them. The adapters enumerate themselves as standard COM ports making the USB interface completely transparent to software.

Quatech's USB Single Port Serial Adapters are based on the idea that taking advantage of new technology should not necessitate abandoning legacy devices and the applications written for them.

### Key Features

- Single port configurations
- RS-232 or software-selectable RS-232/422/485
- Device enumerates itself as standard port
- Baud rate up to 921 kbps
- Full modem control and hardware and software flow control (RS-232)
- Full-duplex or half-duplex modes (RS-422/485)
- Bus powered, no external power required
- 3000V DC optical isolation option (SSU2-400I)
- 15kV DC ESD Immunity (SSU2-300/400I)
- Surge and short circuit protection
- Terminal block connectors on RS-422/485 units
- OS Support: Windows 2000/XP/Vista and Linux support

## USB SINGLE PORT SERIAL ADAPTER SPECIFICATIONS

### Ordering Information

#### Bus Interface

USB 2.0 High Speed

#### OS Support

Windows 2000/XP/Vista and Linux support

#### Data Rate

Up to 921.6 kbps (max)

#### Serial Ports Provided: 1

Model	Interface
SS-USB-100	RS-232 with cable
SSU2-100	RS-232
SSU2-300	RS-422/485
SSU2-400I	RS-232/422/485

USB Ports Required: 1

#### UARTS

1024-byte FIFOs for transmit and receive FIFOs

#### Transceiver:

SP211HB

Differential Driver Output: N/A

High Input: N/A

Low Input: N/A

Driver Rise/Fall Time: 5ns (min), 20ns (typ), 25ns (max)

Driver Input to Output Delay: N/A

Receiver Input to Output Delay: N/A

#### RS-232 Output

Voltage Swing:  $\pm 5V$  (min),  $\pm 5.4V$  (typ)

#### RS-232 Input

Voltage Range: -15V (min), +15V (max)

Input Threshold Low: 0.6V (min), 1.0V (typ)

Input Threshold High: 1.5V (max), 2.4V (typ)

**IND Option:** Surge suppression applied to each line that is capable of sustaining up to 40A peak, 8 x 20 $\mu$ s transient surges, a clamping voltage of 30V and a peak energy dissipation of 0.1 Joules.

#### Environment

Operating: 0° to 70°C

Storage: -50° to 80° C

Humidity: 10% to 90%

#### Power Requirements

Bus-powered device, no external power supply required

Suspend power: < 500  $\mu$ A

Unconfigured power: < 100 mA

Configured power: < 500 mA

#### Connectors

DB-9 male

#### Certifications

CE, FCC Class B, RoHS & WEEE Compliant



SSU2-400I- Single port RS-232/422/485 USB Serial Adapter with optical isolation



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