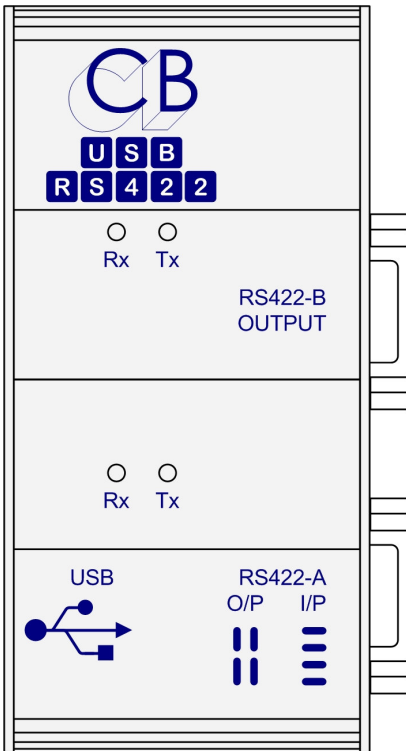




USB422

Dual RS-422 USB Interface



Main Features

- Two RS422 ports, Connections to Standard Sony RS-422 pin-out
- Port A may be configured as a Controller (O/P) or Device (I/P) using internal links
- Port B is configured as a Controller (O/P)
- Windows 98, ME, 2000 and XP Drivers
- MAC OS-X Driver
- Linux Driver
- Optional Tri/Bi Level Video Sync Reference input
- Parallel I/O port with Video Sync option
- Tx and Rx LED's on both ports
- Slew Rate Limited RS422 drivers to minimise EMI and reduce reflections
- Sample Windows Program on website
- Rugged extruded aluminum box
- WEEE/RoHS Compliant



Design

USB Interface:

CB Electronics have for a number of years used USB-RS232 interfaces both with and without RS232-RS422 converters. In designing the USB422 we used the experience with many different manufactures to choose the best combination of hardware and drivers.

RS422 Interface:

Slew Rate Limited RS422 drivers to minimise EMI and reduce reflections on incorrectly terminated connections. Pin-out and termination as per standard Sony connection. Port A may be configured as a Device (I/P) or as a Controller (O/P). Port B is configured as a Controller (O/P), to use as a Device a Tx/Rx invert lead must be used.

Drivers:

Drivers for Windows 98, ME, 2000 and XP with MAC OS-X and Linux are all available from our web site (www.colinbroad.com/cbsoft/usbdriver.html). The USB422 windows drivers are optimised for minimum latency. When installed on Windows the port numbers are set to the last two free port numbers, this may be changed using the driver parameters.

Test Program:

A test programme that provides both machine control and a virtual machine is available from our web site. The program locks both the virtual machine (Port-A) and machine control (Port-B) to video syncs. The program is written in Delphi (Object Pascal).

Video Input:

The Optional Tri/Bi Level video sync input is converted to a frame rate square wave and is connected to the Port A and B CTS Interrupt inputs. The CTS input level after change indicates the video field.

Parallel Input

Fitted with optional video input provides separate GPI I/O driven from the RTS, DCD, DSR, RI, DTR signals from both ports. TTL level inputs and Open collector outputs are provided.

Size: 4.4 x 2.1 x 1.2 (112 x 55 x 31) excluding connectors

Provisional Prices

USB422	Dual RS-422	£120
USB422V	Dual RS-422 with Video Reference	£160

Availability

Small quantities are available now from stock

CB Electronics

Loddonside, Lands End House, Beggars Hill Road, Charvil, Berkshire, RG10 0UD, UK
Tel +44 (0) 1189 320345 Fax +44 (0) 1189 320346
<http://www.colinbroad.com> E-mail Support@colinbroad.com