

**DAKOTA COMPUTER SOLUTIONS - USA**

1579 Lexington Road ■ Green Oaks, Illinois 60048 ■ USA
Tel 847-816-1337 ■ Free 877-816-1337 ■ Fax 847-816-4558

DAKOTA COMPUTER SOLUTIONS - ENGLAND

4 Harp Business Centre, Apsley Way ■ London NW2 7LW ■ ENGLAND
Tel +44 181-452-8400 ■ Fax +44 181-452-2400

DAKOTA COMPUTER SOLUTIONS - GERMANY

Salzufer 16, Geb. B ■ D-10587 Berlin ■ GERMANY
Tel +49 30 8595-37-0 ■ Fax +49 30 8595-37-99

DAKOTA COMPUTER SOLUTIONS - SPAIN

Francisco De Vitoria 19, Entreplanta 3 ■ 50008 Zaragoza ■ SPAIN
Tel +34 76-210-256 ■ Fax +34 76-219-943

DAKOTA COMPUTER SOLUTIONS - IRELAND

Shannon Free Zone ■ County Clare ■ IRELAND
Tel +353 (0)61 70 4000 ■ Fax +353 (0)61 70 4099

DAKOTA COMPUTER SOLUTIONS - DENMARK

Udviklingsparken ■ Sønderhøj 46 ■ 8260 Viby J ■ DENMARK
Tel +45 (0)8734 5610 ■ Fax +45 (0)8734 5611

Addendum for Voyager UTP Extenders with Serial Link Option

This extender contains daughter boards that allow a full-duplex serial data link to be maintained across the CAT5 interconnection cable in addition to PS/2 keyboard/mouse and SuperVGA video.

To set-up your extender for keyboard/mouse/video please follow the instructions detailed in the user's manual. To set-up the extender's serial link, please follow the instructions detailed in this addendum. If you have any questions, contact your dealer.

Serial Option Specification

Baud Rates Supported:	9600 Baud (Default) and 19200 Baud (Jumper Selectable)
Serial Data Format:	8-N-1 (8 Data Bits, No Parity, 1 Stop Bit)
Flow Control:	RTS/CTS or DTR/DSR (Jumper Selectable) Default Setting: Handshaking is not enabled.
Local Unit Connector:	DB9 Female (DCE)
Remote Unit Connector:	DB9 Male (DTE)
Serial Cable (Supplied):	DB9 Male-Female, 1.8m (3'), Wiring 1:1 (DTE-DCE) For use between the CPU and Local Unit
Typical Applications:	Touchscreens, Serial Printers, Industrial Control
Serial Mouse:	Not supported as standard. Please see note below.

Setting Up and Operation

For the vast majority of typical applications the default settings (9600 Baud, No Hardware Flow Control) will suffice. Simply set-up your extender as detailed in the manual and connect the required serial peripheral.

Please bear in mind that the Remote Unit's serial port is wired as DTE (i.e. the same as that on a PC). To connect a serial printer (or other DTE rather than DCE device) to the Remote Unit, you will need a Null-Modem (crossover) cable between the Remote Unit and the printer. Select Xon/Xoff software flow control on the printer and PC.

A serial Touchscreen may be plugged directly into the Remote Unit.

Baud Rate Selection

The daughterboard in the Remote unit has a jumper which is used to select between baud rates of 9600 (default) and 19200. Refer to the drawing below for the location of this jumper. Ensure the Remote Unit is powered down before changing the jumper setting.

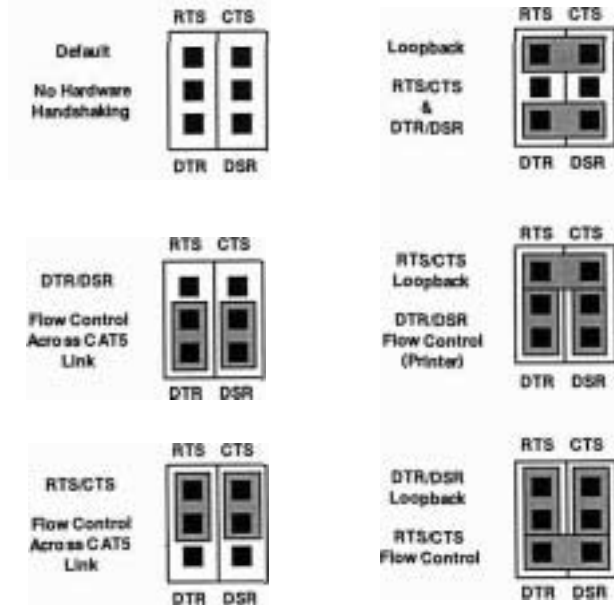
Baud Rate Selection Jumper (Remote Unit)	Baud Rate
OFF (Not Connected)	9600
ON (Connected)	19200

Hardware Flow Control

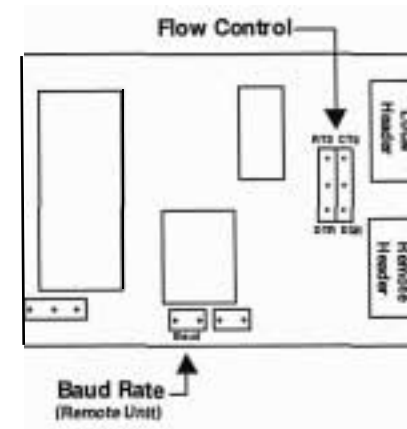
Most applications for the serial link will not require hardware flow control and therefore it is not enabled by default.

However, the daughterboards in both the Local and Remote Units have a series of jumpers which allow the selection of two alternative hardware flow control schemes across the CAT5 link, or local loopback of the flow control lines for those PC's and peripherals that require the presence of a handshaking control signal to enable them.

The following diagrams show how the jumpers may be set for various flow control schemes. Please consult Technical Support if you are unsure about serial port handshaking methods. Refer to the board layout drawing for the location of these jumpers.



Do not alter the position of any jumpers or headers on the daughterboard except for those described above and whose locations are shown below.



Serial Daughter Board

Use with a Serial Mouse

As standard the serial link does not support a serial mouse. If you have a PC which does not have a PS/2 mouse port you should plug a PS/2 mouse into the Remote Unit and use a 2146-00C PS/2-Serial Mouse converter at the CPU side. If however, you have a special serial mouse device such as an industrial trackball which is not available with a PS/2 interface it may be possible to use it through the extender if a custom firmware revision is supplied. Please contact technical support for details.

Dual Unit (Model 1035-21R) Specific Notes

Please note that the remote serial link is always active even if the Local console is selected.