

SIXNET IPm Application Development Kit (IADK)

Using the IPm serial ports for custom protocols or I/O

You can access the serial ports on an IPm station in the same manner as standard Linux, using the 'open()' system call.

The SixTRAK IPm, VersaTRAK IPm and the ST-GT-1210 serial devices are as follows:

Model	Port A	Port B	Port C	Port D
VT-IPm	ttyS02	ttyS00	ttyS03	ttyS01
ST-IPm	ttyS02	ttyS00	ttyS03	-----
ST-GT-1210	-----	ttyS00	ttyS03	-----

- In order to use a serial port for a custom application, the port mode must be set to User or Unassigned in the SIXNET I/O Tool Kit Serial Port Configuration window.
- User mode means the toolkit sets the port parameters such as baud rate, parity, etc. Unassigned mode means it is your application's responsibility to set up the port.

The included sample program, `tst_serial`, demonstrates how to transmit and receive data over the IPm serial port.

tst_serial:

`tst_serial` is a simple program to illustrate a serial interface to access IPm I/O registers. The SIXNET I/O library function calls are used to enter and request information to and from IPm I/O registers. With the `tst_serial` application running on the IPm, you will be able to send messages over the serial port and get back "success" or "failure." The IPm will show the input request, output data, error codes, etc in a terminal window. See `tst_serial/README` for more information

For more information on serial port programming under Linux, see
<http://www.linuxvoodoo.com/howto/HOWTO/Serial-HOWTO/>

: