

Application Note

Using the New High Speed Serial Port Daughtercards with Revision 4.0 Software

The Link Research high speed serial port daughtercards (models LR-232-x-x) for the TI C5000/C6000 development systems uses a higher frequency crystal oscillator to drive the UART device(s). To use this board with the version 4.0 software CD, a simple software change is necessary to insure that the correct data rates are configured into the UART chip.

For each demonstration program contained on the included V4.0 CD, it is necessary to locate the “.h” include file, and replace the code shown below with the code shown on page 2 of this application note.

```
#if (RS_232)
#define DATA_RATE_1200 192
#define DATA_RATE_2400 96
#define DATA_RATE_4800 48
#define DATA_RATE_9600 24
#define DATA_RATE_19200 12
#define DATA_RATE_38400 6
#define DATA_RATE_57600 4
#define DATA_RATE_115200 2
#define DATA_RATE_230400 1
#endif

#if (RS_422)
#define DATA_RATE_4800 192
#define DATA_RATE_9600 96
#define DATA_RATE_19200 48
#define DATA_RATE_38400 24
#define DATA_RATE_57600 16
#define DATA_RATE_115200 8
#define DATA_RATE_230400 4
#define DATA_RATE_460800 2
#define DATA_RATE_921600 1
#endif
```

```
#define DATA_RATE_4800 192
#define DATA_RATE_9600 96
#define DATA_RATE_19200 48
#define DATA_RATE_38400 24
#define DATA_RATE_57600 16
#define DATA_RATE_115200 8
#define DATA_RATE_230400 4
#define DATA_RATE_460800 2
#define DATA_RATE_921600 1
```

The code segment shown above can be cut and pasted directly from this document.

By making this change, each port on the daughtercard will have the capability of operating up to 921.6 kbps.

Version History

Date	Version	Description
28-Feb-2008	1.0	Original