SH7785LCR Beginners Guide

Introduction

This page describes everything you need to know to to get started with the SH7785LCR Evaluation Board (R0P7785LCLC0011RL).
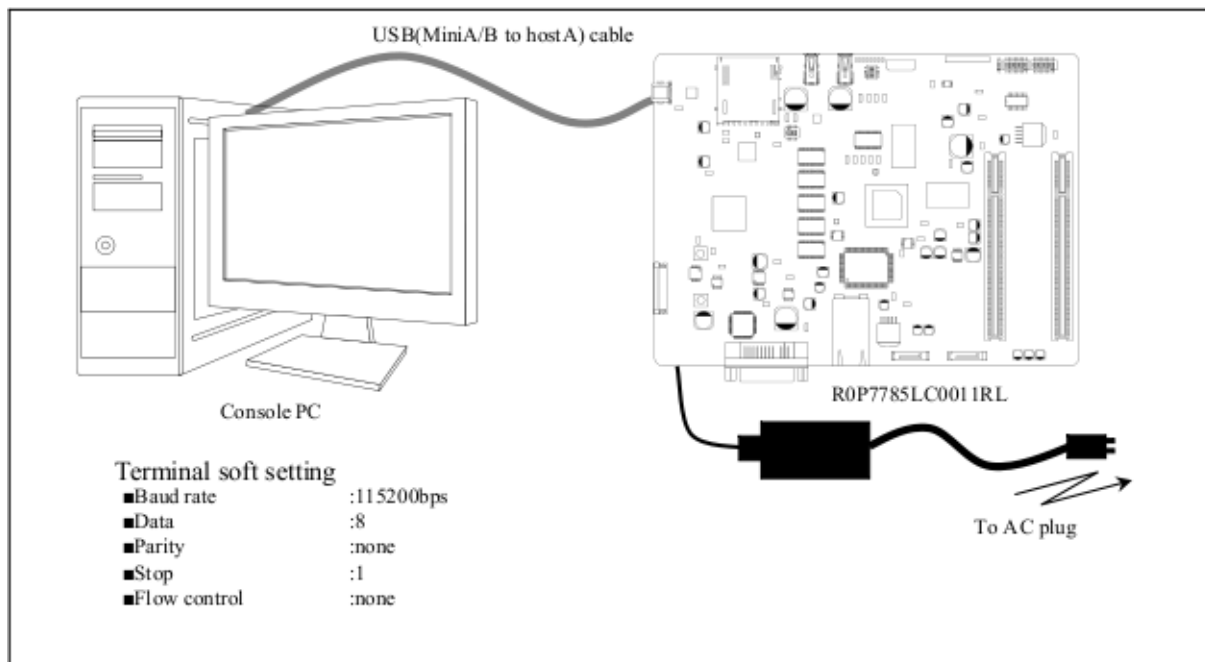
Hardware Inventory

The following items are included in your evaluation kit or may be ordered as accessory items from Renesas directly:

Item	Description	Quantity
R0P7785LC0011RL	SH7785 Board	1
Flash ROM Board	Flash ROM Board (within bool loader)	1
JTAG-FPC	FPC board for emulator connection	1
CD-ROM	User's Manual, sample programs, etc.	1
AC/DC Adapter	DC12.0V 5A	1

Hardware Set Up

The following diagram describes basic configuration of the hardware prior to initial power up. Additional hardware such as a DVI Monitor, network cable, etc. can be attached as required. Use of additional hardware is described below.

Hook Up Steps

1. Please attach the Flash ROM board to CN8 mounted on the solder side of the 7785LCR. (Be careful to seat the contacts properly.)

2. Connect the mini-USB cable to the 7785LCR Mini-USB connector (CN15) right next to the SD card slot and the other end to your PC USB port.

3. Connect power adapter to the DC-IN and plug the other end into a power outlet.

4. Set up Terminal Software on your PC with the following settings.

- Baud Rate: 115200bps

- Data: 8 bit

- Parity: none (N)

- Stop Control: 1

- Flow Control: none

  For detailed instructions on configuring Minicom, see the Terminal Software page.

5. Start the Terminal Software on your PC. Using Minicom on a Linux PC.

```
$ minicom <return>
```

You should see the following on your Linux screen (or something very similar depending on your version of Minicom).

```
Welcome to minicom 2.3
OPTIONS: I18n
Compiled on Oct 24 2008, 06:47:12.
Port /dev/ttyUSB0

        Press CTRL-A Z for help on special keys
```

6. Power On board with the Red Power Switch.

   At this point the Terminal Screen will listing the boot sequence output.

   Following boot, the system present the User with a U-Boot environemnt prompt:

```
=>
```

At this point the basic u-boot environment is available. Entering Help at the command line will list the following U-Boot commands.

Booting Linux Using the Network

Using Additional Hardware

USB Memory Thumbdrive

LAN connection

DVI Monitor