Programming Logic Machine II using USB<->UART TTL adapter

Software requirements

- Tftp32 (tftp server): <u>http://tftpd32.jounin.net/</u>
- Tera Term Pro (for serial communication): <u>http://ttssh2.sourceforge.jp/</u>

Serial port settings (Setup - Serial Port menu in Tera Term Pro)

- Port: COMx, where x is a number depending on your system
- Baud rate: 115200
- Data: 8 bit
- Parity: none
- Stop: 1 bit
- Flow control: none
- Transmit delay: 0 msec/char, 0 msec/line

PC Ethernet settings

- IP: 192.168.0.1
- Mask: 255.255.255.0
- Gateway: not specified, leave blank
- DNS: not specified, leave blank

Follow this guide to reprogram your Logic Machine II

- 1. Disconnect LMII from power supply and remove the board from the case
- 2. Connect serial cable to LMII board and your PC
- 3. Connect Ethernet cable to the Ethernet port on the board and your PC
- 4. Start Tera Term Pro and keep the window open
- 5. Connect power supply to the board
- 6. When 'Hit Enter to stop autoboot' message appears, press "Enter" key on your keyboard to enter programming mode
- 7. From Tera Term Pro window, enter this command to completely erase flash memory on your board:

nand erase 0x0300000 0xFD00000

- 8. Start Tftp32
- Place firmware image files into the same directory where Tftp32 is installed, usually: C:\Program Files\Tftpd32\
- 10. Flash kernel: tftp 0x22000000 kernel.img nand write 0x22000000 0x0300000 \$(filesize)
- 11. Flash data: tftp 0x22000000 data.img nand write 0x22000000 0x0600000 \$(filesize)
- 12. After the firmware is completely written, enter this command to restart the board: reset
- 13. Wait about 3-5 minutes for the system initialization to complete and you will be able to access your LMII using this IP address:
 192.168.0.10