



NetBurner

SB72EX Monitor Recovery Procedure

Revision 1.0
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Initial Release

IMPORTANT

If you did **not** purchase the SB72EX Network Development Kit, you will **need** to obtain a NULL Modem cable in order to recover your SB72EX Device.

FLASH MONITOR PROCEDURE – FULLY FUNCTIONAL SB72EX

If your SB72EX device **is** functioning properly, and this is a **preventive measure**, simply update the flash monitor using the MTTTY serial program by following these instructions.

1. Run **MTTTY** (Start → Programs → Netburner NNDK → Mttty Serial Terminal) to bring up the monitor. **Note:** The baudrate for both MTTTY and the monitor in your NetBurner SB72EX device **must be** set to 115200. Also, make sure that you choose the correct COM port. **Note:** Use the **NULL modem** cable (included in your NNDK) **to connect** your SB72EX device to your host computer.
2. **Hard reset** your SB72EX device by disconnecting power and then reconnecting power. Type an **A** (i.e. an uppercase A) when prompted in the MTTTY window, to enter the flash monitor (the first time - **before** any trap occurs). You should see the NetBurner prompt (i.e. **nb>**).
3. Type the letters **FLM** (for flash monitor) at the nb> prompt, and press the **Enter** key to begin the flash monitor update.
4. Send the **SB72EXrommon.s19** file to your SB72EX device. This can be done either by pressing the **F5** key on your keyboard, or by clicking **Transfer** on the MTTTY menu toolbar, and then **Send** on the pull down menu. Select the **SB72EXrommon.s19** file in the Send File window, and click the **Open** button. You will see "*****" in the MTTTY window indicating that this file is being downloaded into your device.

FLASH MONITOR PROCEDURE – FLASH PROGRAMMING PROBLEM

If your SB72EX device is **not** functioning properly, the procedure below will program a new monitor into your SB72EX device by downloading a program (i.e. **SB72EXrecover.s19**) into SDRAM, which will then reprogram the flash monitor. This procedure should be successful 99% of the time. If this procedure is **not** successful, your SB72EX device **will** have to be returned to the factory for reprogramming. If this is the case, please go to <http://support.netburner.com/>, log in, and click on the "RMA Request" link on your user screen to start the RMA process.

1. Run MTTTY (Start → Programs → Netburner NNDK → Mttty Serial Terminal) to bring up the monitor. **Note:** The baudrate for both MTTTY and the monitor in your NetBurner SB72EX device **must** be set to 115,200. Also, make sure that you choose the correct COM port **before** clicking the Connect button. **Note:** Use the **NULL modem** cable (included in your NNDK) **to connect** your SB72EX device to your host computer.
2. Hard reset your SB72EX device by disconnecting power and then reconnecting power. Type an **A** (i.e. an uppercase A) in the MTTTY window when prompted, to enter the flash monitor (the first time - **before any trap occurs**). You should see the NetBurner prompt (i.e. **nb>**).
3. Type the letters **DL** (for download) at the nb> prompt and press the **Enter** key to begin the SDRAM download.
4. Send the **SB72EXrecover.s19** file to your SB72EX device. This can be done either by pressing the **F5** key on your keyboard, or by clicking **Transfer** on the MTTTY menu toolbar, and then **Send** on the pull down menu. Select the **SB72EXrecover.s19** file in the Send File window, and click the **Open** button. You will see "*****" in the MTTTY window indicating that this file is being downloaded into your SB72EX device.
5. Once this file has been downloaded into SDRAM, type the word **GO** and press the **Enter** key. You will see the letter **G** in the MTTTY serial terminal window after GO (i.e. **GOG**). **Note:** If your baudrate is set to something other than 115200 - you will **not** see the G.
6. Send the **SB72EXrommon.s19** file to your SB72EX device. This can be done either by pressing the **F5** key on your keyboard, or by clicking **Transfer** on the MTTTY menu toolbar, and then **Send** on the pull down menu. Select the **SB72EXrommon.s19** file in the Send File window, and click the **Open** button. You will see "*****" in the MTTTY window indicating that this file is being downloaded into your SB72EX device. Your SB72EX device will reprogram the monitor and reboot. **Your SB72EX device has lost ALL of its settings and the monitor will report an error.**
7. Next, reprogram your SB72EX device's settings by using the monitor setup command in MTTTY (and follow the on-screen instructions). This can be done by typing the word **setup** at the prompt, and pressing the **Enter** key. **Note:** Do **not** forget to enter your SB72EX's MAC address. Also, do **not** forget setup selection number 8 to change how your SB72EX device boots and setup selection number 7 – the wait time.
8. Finally, load a working application (we suggest the SB72EXApp_App.s19 application) into your SB72EX device. This can be done in MTTTY using the FLA command.

IMPORTANT: Your SB72EX device will **not** function properly until you **complete** step 5.