# GENERAL DYNAMICS

Itronix

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#### SPARCbook 5000/6500 BATTERY

### IMPORTANT INFORMATION – FOLLOW THIS PROCEDURE BEFORE USING YOUR NEW BATTERY IN YOUR SPARCbook

This new intelligent battery pack for your SPARCbook system may use a new battery controller to the original battery pack supplied with your system. For correct operation of your SPARCbook with the new battery the OpenBoot (OBP) and Power Management Unit (PMU) firmware in your SPARCbook requires upgrading. The firmware upgrade will enable the SPARCbook to correctly identify, monitor and operate your new battery pack.

Upgrading the SPARCbook with this firmware will not affect operation with your original battery pack(s).

If your SPARCbook already has a version of firmware that supports your new battery pack you do not need to follow these instructions.

To verify the version of firmware installed on your system turn the unit on and check the banner shows the OpenBoot & PMU revision numbers.

The OpenBoot revision must be 4.0.3 Tadpole 1.12 or later and the PMU Version must be 1.69 or later.

If your system has earlier versions of OpenBoot and PMU firmware it is important you follow these instructions.

If the new battery is used without updating the firmware it:

- May not be detected by the SPARCbook
- Will not charge reliably
- Will have an impaired useful life

#### SPARCbook 5000/6500 OBP/PMU 1.12\_1.69 Firmware Installation Instructions

FOR TADPOLE SPARCbook 5000/6500 ONLY

!!!! !!!! III Updating the wrong OBP & PMU image will prevent your system to !!!! !!!! boot. The only way to fix this problem is return your unit to !!!! !!!! a service center to re-install the OBP and PMU. !!!! !!!! !!!! **!!!!** It is advisable to run from AC power when following this procedure. !!!! !!!! .... 

#### **Prerequisites**

- SPARCbook 500 or 650 Mhz unit running from AC power.
- Solaris 8, 9 or 10 installation
- Tadpole packages TADflash must be installed (/usr/Flash)
- Access to the internet (ftp://ftp.tadpole.com)

#### Comprises of:

• Firmware, OBP and PMU: sb5000\_112\_169.combo

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#### **Procedure**

1. Download the firmware to be installed. This can be accessed from:

http://www.tadpole.com

From the menu bar select Product Support and then Downloads. In the Notebook Downloads section scroll to the SPARCbook 5000/SPARCbook 6500 row and select the OBP directory.

Download the sb5000\_112\_169.combo file

Or enter the following URL to download the firmware directly:

ftp://ftp.tadpole.com/support/SPARCbook5000\_6500/Obp/sb5000\_112\_169.combo

2. Copy the firmware, sb5000\_112\_169.combo to the /usr/Flash directory and verify the file checksum.

# cd /usr/Flash # sum -r sb5000\_112\_169.combo 65361 1120 sb5000\_112\_169.combo

3. Install the OBP\_PMU combo image as follows:

To run the flash utility login as root (super-user)

#./flash-update -f /usr/Flash/SPARCle\_112\_169.combo -y

PromFile:/usr/Flash/sb5000\_112\_169.combo Copied 573440 bytes prom image from /usr/Flash/sb5000\_112\_169.combo into memory

```
Updating Ultrabook Ile/SPARCbook 5000/SPARCLE PROM
FLASH type: AMD 29F081B
System Name: Ultrabook Ile/SPARCbook 5000/SPARCLE
Magic: OBMD
OBP Version: 4.0.213 2005/04/19 11:57
1 Erasing ... Done
1 Verifying Erase ... Done
1 Verifying Program ... Done
1 Verifying Program ... Done
```

4. Power down the unit and set the OBP environmental variable, auto-boot? to false

# sync; init 0

At the ok prompt:

ok> setenv auto-boot? false

Turn the system off

5. To update the PMU directly from the . combo image:

Turn the system on

At the ok prompt:

**ok>** pmu-update

Answer Y (NB: must be in uppercase) and wait for the unit to power down (may take up to two minutes). Turn the unit on and check that the banner shows the correct OBP & PMU revision number:

SPARCbook 5000:	SPARCbook 5000 (Ultrabook-Ile 500MHz), PMU Version 1.69 OpenBoot 4.03 Tadpole 1.12, 512 MB memory, Serial # 1xxxxxx
SPARCbook 6500:	SPARCbook 6500 (Ultrabook-Ile 650MHz), PMU Version 1.69 OpenBoot 4.03 Tadpole 1.12, 512 MB memory, Serial # 1xxxxxxx