## Chapter 4. Using BIOS Setup Utility

Your ruggedized tablet has a BIOS setup utility which allows you to configure important system settings, including settings for the Boot and AP menus as well as the device's basic settings--the system reads the basic settings during initialization in order to boot correctly

### When to Use the BIOS Setup Utility

You need to run the BIOS Setup utility when:

- Restoring to BIOS settings to factory default
- Modifying specific hardware settings
- Modifying specific settings to optimize system performance
- Installing Windows 7 operating system

### Accessing the BIOS Setup Utility



The BIOS Setup Utility screens shown in this chapter are for your reference only. The actual images or settings on your tablet computer may differ.

The BIOS Setup Utility program may have been updated after the publication of this manual.

To run the BIOS Setup Utility, use the following procedures:

- 1. Perform one of the following:
- If the PM-521 is powered off

Press the Power button to start up the device. The power LED lights. Quickly press and hold the Windows Home key until the BIOS Post screen displays.

If the PM-521 is powered on Press the Power button to shut down the device. Quickly press and hold the Windows Home Key until the BIOS Post screen displays.

The BIOS POST screen appears as shown.

2. From the BIOS POST screen select App Menu to open the BIOS Setup Utility.

Figure 50. BIOS POST Screen

Due to the device's fast boot up and boot down time, there is only a small time frame of a few seconds between the release of the Power button and the opportunity to press the Windows Home key.

The App Menu displays.



Figure 51. BIOS Setup Utility: App Menu Screen

### Installation an Operating System

#### Setting Up a Windows 7 Installation Environment

There are several settings in BIOS that must be modified before you can install a Windows 7 operating system.

Use the following guidelines to prepare the BIOS environment:

- Step 1: Enable CSM Support
  - 1. Access the BIOS Setup Utility, see "Accessing the BIOS Setup Utility" on page 37.
  - 2. Navigate to **APP Menu > Main > Boot Features**.
  - 3. Locate the **CSM Support** setting and tap the drop-down menu to display the options.

4. Tap Yes to enable CSM support.

PHOENIX SECURECORE TECHNOLOGY SETUP		
Main		Boot Features
System Date View or set system date.		NumLock:
System Time View or set system time.		CSM Support Yes  Quick Boot
System Information Display System Information.		Off Legacy Boot
Boot Features Select Boot Features		On
Network Stack		
		phoenix
Exit Main	Advanced	Home Discard Save Boot

Figure 52. Main > Boot Features

- Step 2 Enable Legacy Boot
  - 1. Access the BIOS Setup Utility, see "Accessing the BIOS Setup Utility" on page 37.
  - 2. Navigate to **APP Menu > Main > Boot Features**.
  - 3. Locate the Legacy Boot setting and tap on the menu to select **On** enable legacy boot.

PHOENIX SECURECORE TECHNOLOGY SETUP			
Main		Boot Features	
System Date View or set system date.		NumLock: On	
System Time View or set system time.		CSM Support Yes	
System Information Display System Information.		Off Legacy Boot	
Boot Features Select Boot features		On	
Network Stack			
		phoen	ix)
Exit Main	Advanced	Home Discard Save	Boot

*Figure 53. Main > Boot Features* 

- Step 3: Enable USB 2.0 Support
  - 1. Access the BIOS Setup Utility, see "Accessing the BIOS Setup Utility" on page 37.
  - 2. Navigate to **APP Menu > Advanced > Miscellaneous Configuration**.
  - 3. Locate the **USB Controller Select** drop-down menu and tap on it.

#### Using BIOS Setup Utility

4. Tap **USB 2.0** from the menu list. USB 2.0 is now enabled for the device.



Figure 54. Advanced > Miscellaneous Configuration

- Step 4: Advanced > Miscellaneous Configuration
- Save the Settings

After you configure BIOS, you will need to save the settings.

1. Navigate to **APP Menu > Exit** and tap **Exit Saving Changes**.

PHOENIX SECURECORE TECHNOLOGY SETUP	
Exit	
Exit Saving Changes Equal to FIQ, save all changes of all menus, then exit setup configure driver. Finally resets the system automatically.	
Exit Discarding Changes Equal to ESC, never save changes, then exit setup configure driver.	
Load Setup Defaults Equal to P9. Load standard default values.	
Discard Changes Load the original value of this boot time. Not the default Setup value.	
Save Changes Save all changes of all menus, but do not reset system.	
	phoenix
Boot <b>Exit</b> Main	Home Discard Save Boot

Figure 55. Exit the BIOS Utility

2. A prompt display, tap **Yes** to save the configuration.

The BIOS settings are configured and the Windows 7 operating system can be installed.

### **BIOS Passwords**

#### Setting Up a Supervisor Password

To setup a supervisor password, follow the procedure as described:

- 1. Go to APP Menu > Security > Account's Password Status.
- 2. Tap the Enter icon next to Setup the Supervisor Password to access the virtual keyboard.



Figure 56. Security > Account's Password Status

3. Tap the password to use for the Supervisor profile and tap Enter.

Secu	rity				Ac		un	t's	Pa		WC	brd	Sta	tus
	and the lines of						-	*						
Gerrune Be	Set	Su	per	rvis	sor	Pa	ISS\	NO	rd					
	EnterCu	rrent Pa	ssword	1										
	ESC 1	2	3	4	5	6	7	8	9	0		-	Backspace	
	1. g	w		r.	t	у	u	1	0	p	1	1	N.	
	Caps Lock	a.	- 51	d	A.	g	h	1	k	4	1	÷.	Enter	zel
HDD Se	Shift	x	×	e	v	b	р	m			1	T	Shift	
Frusted						5	pace							
TPM Con	figuration													-
TO BE LUE	-po and													

Figure 57. Set Supervisor Password

Using BIOS Setup Utility

- 4. Verification of the password is required. Tap the same password again and tap **Enter** to confirm the new password.
- 5. Navigate to **APP Menu > Exit**.

PHOENIX SECURECORE TECHNOLOGY SETUP	
Exit	
Exit Saving Changes Equal to F10, save all changes of all menus, then exit setup configure driver. Finally resets the system automatically.	
Exit Discarding Changes Equal to ESC, never sive changes, then exit setup configure diver.	
Load Setup Defaults Equal to PP. Load standard default values.	
Discard Changes Load the original value of this boot time. Not the default Setup value.	
Save Changes Save all changes of all menus, but do not reset system.	
	phoenix
Boot <b>Exit</b> Main	Home Discard Save Boot

Figure 58. Exit Screen

- 6. Tap **Exit Saving Changes** to display the confirmation screen.
- 7. Tap **Yes** to save the new configuration settings.

After setting the Supervisor password, the password is required to access the BIOS Setup Utility.

#### Changing a Supervisor Password

- 1. Navigate to **APP Menu > Security > Account's Password Status**.
- 2. Tap the Enter icon next to Setup Supervisor Password.
- 3. Enter the current supervisor password.
- 4. Enter a new password.
- 5. Enter the new password again to confirm.
- 6. Go to **APP Menu > Exit**.
- 7. Tap Exit Saving Changes and tap Yes to save the configuration.

#### Resetting a Supervisor Password

A supervisor password can not be reset. In the event that you forget the supervisory password, you will need to reflash the BIOS to enter the BIOS menus. Refer to *"Updating BIOS"* on page 43 to reflash the BIOS.

## EC and BIOS

### **Updating BIOS**

This procedure allows you to update and reflash the system BIOS. Both procedures follow the same steps as described in the following.



Make sure to protect your device from power loss during the BIOS update procedure to prevent irreparable damage to your system's mainboard.

For this procedure, it is highly recommended to connect the device to the AC adapter to prevent a sudden loss of power during the BIOS updating process.

- 1. Contact your technical sales or technical representative to obtain the correct BIOS file.
- 2. Copy the BIOS file on to the USB device.
- 3. Connect the USB device to one of the device's USB ports and power on the PM-521.



A USB keyboard is required for entering command.

- 4. Once the device is on and the Windows 8 Home screen displays, open the Charms bar by sliding your finger inward from the screen's right edge. The Charms bar displays.
- 5. Tap **Settings** from the displayed menus.



Figure 59. Charms Bar > Settings

#### 6. Tap Change PC settings.



Figure 60. Change PC Settings

7. From the PC settings menu, tap **Update and recovery** to continue.



Figure 61. Update and Recovery

8. From the **Update and recovery** screen, tap **Recovery**. The **Advanced startup** option displays.



Figure 62. Recovery

9. Under Advanced startup, tap Restart now.



Figure 63. Restart Now

10. Tap **Use a device** to select a boot up preference.



Figure 64. Use a Device

11. From the **Use a device** menu, tap **Internal Shell** to open the command screen.





Figure 65. Internal Shell

12. In the command screen, enter fs1: to select the USB device already connected to the device. The command directs you to the USB device's root menu.

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Hardward         Processor           Active         Intel 1200 bit           Active         Intel 1200 bit           Active         Intel 1200 bit           Active         Intel 1200 bit           Bit         Intel 1200 bit	<ul> <li>Handbaard Prockedvict Hilds Texas of Nither Construction of National Construction (NetWood, 30, NPc1 (1410) NAIs 60, 60)</li> <li>Hardbisk - Alias killse Fe9 (NP0003, 60, NPc1 (1310) /Sata (0, 0, 0) /HD (Part2, Sig632A7CB5-549A-4490-A1FC-809CA105BF3A)</li> <li>Hardbisk - Alias killse (NetWood, 30, NPc1 (1310) /Sata (0, 0, 0) /HD (Part1, Sig48E671EF-27A4-4990-8B83-86836FB8AEA7)</li> <li>Hardbisk - Alias (Mull) Asha (0, 0, 0) /HD (Part1, Sig48E671EF-27A4-4990-8B83-86836FB8AEA7)</li> <li>Hardbisk - Alias (Mull) Asha (0, 0, 0) /HD (Part1, Sig48E671EF-27A4-4990-8B83-86836FB8AEA7)</li> <li>Hardbisk - Alias (Mull) Asha (0, 0, 0) /HD (Part3, SigE75E2A22-E220-4198-8B22-4053P73A37FC6)</li> <li>Hardbisk - Alias (Mull) Acta (0, 0, 0) /HD (Part4, Sig2CED8758-5280-4BC6-8761-0965185EA9B4)</li> <li>Hardbisk - Alias (Mull) Acta (0, 0, 0) /HD (Part4, Sig2CED8758-5280-4BC6-8761-0965185EA9B4)</li> <li>Hardbisk - Alias (Mull) Acta (0, 0, 0)</li> <li>Press ESC in 1 seconds to skip startup.nsh, any other key to continue.</li> <li>hell&gt; _</li> </ul>	<ul> <li>Hardward Proceeding Technologics (1997)</li> <li>Hardward Proceeding Technologics (1997)</li> <li>Hardbisk - Alias kills (solution)</li> <li>Hardbisk - Alias kills (solution)</li> <li>Hardbisk - Alias kills (solution)</li> <li>Hardbisk - Alias (solut</li></ul>	<pre>http://www.seconds.com/com/com/com/com/com/com/com/com/com/</pre>	13.1         State Orbit         11.3         12.00         0.01           Action of Prefixed 20.07 Fiel (1410) //3.16.06.0         Hind 20.07         Hind 20.07         Hind 20.07           Bill - Hand Disk - Alias hdj0c fs0         Action (19.07)         Hind 20.07         Hind 20.07         Hind 20.07           Bill - Hand Disk - Alias hdj0c fs0         Action (19.07)         Hind 20.07         Hind 20.07         Hind 20.07           Bill - Hand Disk - Alias (10.07         Action (10.07         Hind 20.07         Hind 20.07         Hind 20.07           Bill - Hand Disk - Alias (10.01)         Action (10.07         Hind 20.07         Hind 20.07         Hind 20.07           Bill - Hand Disk - Alias (10.01)         Action (10.07         Hind (10.07         Hind 20.07         Hind 20.07           Bill - Hand Disk - Alias (10.01)         Action (10.07         Hind (10.07         Hind 20.07         Hind 20.07           Bill - Hand Disk - Alias (10.01)         Action (10.07         Hind (10.07         Hind 20.07         Hind 20.07           Bill - Hand Disk - Alias (10.01)         Action (10.07         Hind (10.07         Hind (10.07         Hind (10.07           Hind Hind - Hand (10.07         Hind (10.07         Hind (10.07         Hind (10.07         Hind (10.07         Hind (10.07           Hind Hind - Hand (10.07	En1	· Pannushia Rice/Marica - Olian (20a0 bit)
blk0         HardDisk - Allas hdi9c fs0           herdDisk - Allas hdi9c fs0         herdDisk - Allas hdi9c fs0           herdDisk - Allas hdi9c fs0         herdDisk - Allas hdi9c fs0           herdDisk - Allas hdi9c fs0         herdDisk - Allas hdi9c fs1           herdDisk - Allas fc0, 00 / He (1410) / Hs (0,0)         herdDisk - Allas (mull)           herdDisk - Allas (mull)         herdDisk (Mullo / Sata (0,0,0)           herdDisk - Allas (mull)         herdDisk (Mullo / Sata (0,0,0)           herdDisk - Allas (mull)         herdDisk (Mullo / Sata (0,0,0)           herdDisk - Allas (mullo / Sata (0,0,0)         herdDisk (Mullo / Sata (0,0,0)           herdDisk - Allas (mullo / Sata (0,0	<ul> <li>http://ncons.org/fcit/for/add/0.00/000</li> <li>http://ncons.org/fcit/fcit/fcit/fcit/fcit/fcit/fcit/fcit</li></ul>	<ul> <li>http://firm.obj.org/firm.obj.or</li></ul>	<ul> <li>http://times.com/iter/iter/iter/iter/iter/iter/iter/iter</li></ul>	<ul> <li>http://firecond.org/firecond.org/filecond.or</li></ul>	151	Achovalle blocklevice - Hilds (2000 blk)
bild:         introd section (Section (Sata (0,0,0) /H0 (Part2.Sig632A7CB5-549A-4A90-A1FC-809CA105BF3A)           bild:         immovable BlockDevice - Alias (2680 fs1.           fcp:         fcp:           fcp:         (PP0063.0) /Pc: (1310) /Usb (0,0)           bild:         immovable BlockDevice - Alias (2680 fs1.           fcp:         (PP0063.0) /Pc: (1310) /Usb (0,0)           bild:         immovable BlockDevice - Alias (0,0,0) /H0 (Part1.Sig4BE671EF-2704-4990-8B93-86836FBBAEA7.           bild:         immovable BlockDevice - Alias (0,0,0) /H0 (Part1.Sig4BE671EF-2704-4990-8B93-86836FBBAEA7.           bild:         immovable - Alias (0,0) /Pc: (1310) /Sata (0,0,0) /H0 (Part3.SigE75F2A22-F220-419B-8BC2-A05D73A37F66.           bild:         immovable - Alias (0,0) /Rc (1310) /Sata (0,0,0) /H0 (Part4.Sig2CED8758-5280-4866-8761-0965185EA984.           bild:         immovable ice - Alias (0,0) /Rc (1310) /Sata (0,0,0) /H0 (Part4.Sig2CED8758-5280-4866-8761-0965185EA984.           bild:         ibcckBevice - Alias (0,0) /Rc (1310) /Sata (0,0,0)           fress ESC in 1 seconds to skip startup.nsh, any other key to continue.           bill:         istartup.nsh, any other key to continue.	Intro and the startup.nsh. and other key to continue.         her (PMP000.8) /Pci (1310) /Sata (0.0.0) /HD (Part2.Sig63267CB5-5498-4690-61FC-B09CA105BF30)         blN1:       Removable BlockDevice - Alias (2000 fs1.         her (PMP000.3) /Pci (1310) /Sata (0.0.0)       BlockDevice - Alias (2000 fs1.         her (PMP000.3) /Pci (1310) /Sata (0.0.0) /HD (Part1.Sig4BE671EF-2764-4990-8B03-86836FBBAEA7)         blN2:       HardDisk - Alias (2011)         Acpi (PMP000.3) /Pci (1310) /Sata (0.0.0) /HD (Part1.Sig4BE671EF-2764-4990-8B03-86836FBBAEA7)         blN3:       HardDisk - Alias (2011)         Acpi (PMP0003.0) /Pci (1310) /Sata (0.0.0) /HD (Part1.Sig4BE671EF-2764-4990-8B03-86836FBBAEA7)         blM1:       HardDisk - Alias (2011)         Acpi (PMP0003.0) /Pci (1310) /Sata (0.0.0) /HD (Part1.Sig2F52622-F220-4198-BE22-605D73637FC6)         blM1:       HardDisk - Alias (2011)         Acpi (PMP0003.0) /Pci (1310) /Sata (0.0.0)         HardDisk - Alias (2011)         Acpi (PMP0003.0) /Pci (1310) /Sata (0.0.0)         HardDisk - Alias (2011)         Acpi (PMP0003.0) /Pci (1310) /Sata (0.0.0)         HardDisk - Alias (2011)         Acpi (PMP0003.0) /Pci (1310) /Sata (0.0.0)         Press ESC in 1 seconds to skip startup.nsh, any other key to continue.         hell> _	Introduction       Introduction       Sata (0,0,0) /Pci (1310) /Sata (0,0,0) /HD (Part2.Sig63267035-5496-4690-61FC-809CA1058F36)         bild:       Reput(PMP0060.6) /Pci (1310) /Sata (0,0,0) /HD (Part2.Sig63267035-5496-4690-61FC-809CA1058F36)         bild:       Reput(PMP0060.0) /Pci (1310) /Sata (0,0,0) /HD (Part1.Sig48E671EF-2764-4990-8893-86836F88687)         bild:       HardDisk - Allas (mull)         Acp: (PMP0060.0) /Pci (1310) /Sata (0,0,0) /HD (Part1.Sig48E671EF-2764-4990-8893-86836F88687)         bild:       HardDisk - Allas (mull)         Acp: (PMP0063.0) /Pci (1310) /Sata (0,0,0) /HD (Part3.SigF75F2622-F220-4198-8EC2-0650736378766)         bild:       HardDisk - Allas (mull)         Acp: (PMP063.0) /Pci (1310) /Sata (0,0,0) /HD (Part4.Sig2CED0758-5280-4806-8761-0965185E6984)         bild:       HardDisk - Allas (mull)         Acp: (PMP0603.0) /Pci (1310) /Sata (0,0,0)       HD (Part4.Sig2CED0758-5280-4806-8761-0965185E6984)         bild:       HardDisk - Allas (mull)         Acp: (PMP0603.0) /Pci (1310) /Sata (0,0,0)       Press         BcRebevice - Allas (mull)       Acp: (PMP0603.0) /Pci (1310) /Sata (0,0,0)         Press       SC in 1 seconds to skip startup.msh, any other key to continue.         hells	Photo industry and infinite and state (0.0.0) /HD (Part2.Sig63267285-5496-4690-41FC-809CA1058F36         Photo infinite and state (0.10) /FC (1310) /Sata (0.0.0) /HD (Part2.Sig63267285-5496-4690-41FC-809CA1058F36         Photo infinite and state (0.11) / FC (1410) /Bata (0.0.0) /HD (Part1.Sig48E671EF-2764-4990-8803-86836F886678         Photo infinite and state (0.11) / FC (1310) /Sata (0.0.0) /HD (Part1.Sig48E671EF-2764-4990-8803-86836F886678         Photo infinite and state (0.11) / FC (1310) /Sata (0.0.0) /HD (Part1.Sig48E671EF-2764-4990-8803-86836F886678         Photo infinite and state (0.11) / FC (1310) /Sata (0.0.0) /HD (Part3.Sig2752622-F220-4198-8E22-605173637FC6         Photo infinite and state (0.11) / FC (1310) /Sata (0.0.0) /HD (Part4.Sig2758-5280-4806-8761-0965185E6984         Photo is A files (0.11) / FC (1310) /Sata (0.0.0) /HD (Part4.Sig2758-5280-4806-8761-0965185E6984         Photo is A files (0.11) / FC (1310) /Sata (0.0.0)         Photo is A files (0.11) / FC (1310) /Sata (0.0.0)         Photo is A files (0.11) / FC (1310) /Sata (0.0.0)         Photo is A files (0.11) / FC (1310) /Sata (0.0.0)         Photo is A files (0.11) / FC (1310) /Sata (0.0.0)         Photo is A files (0.11) / FC (1310) /Sata (0.0.0)         Photo is A files (0.11) / FC (1310) /Sata (0.0.0)         Photo is A files (0.11) / FC (1310) /Sata (0.0.0)         Photo is A files (0.11) / FC (1310) /Sata (0.0.0)         Photo is A files (0.11) / FC (1310) /Sata (0.0.0)         Photo is A files (0.11) / FC (1310) /Sata (0.0.0)     <	Introduction       Introduction       Sata (0,0,0) /Pci (13)0) /Sata (0,0,0) /H0 (Part2.Sig63267CB5-5496-4690-A1FC-B09CA105BF30)         bild1       Removable BlockDevice - Alias 72640 fs1       ncpi (PMP0063.0, /Pci (13)0) /Pci (14)0, /hab (0,0)         bild2       HardDisk - Alias (mil)       Acpi (PMP0063.0, /Pci (13)0) /Sata (0,0,0) /H0 (Part1.Sig4BE671EF-2764-4990-8893-86836FBBME87)         bild2       HardDisk - Alias (mil)       Acpi (PMP0063.0, /Pci (13)0) /Sata (0,0,0) /H0 (Part3.SigE75F2622-F220-4198-BEC2-605B73047FC6)         bild3       HardDisk - Alias (mil)       Acpi (PMP0063.0) /Pci (13)0) /Sata (0,0,0) /H0 (Part3.SigE75F2622-F220-4198-BEC2-605B730437C6)         bild3       HardDisk - Alias (mil)       Acpi (PMP0063.0) /Pci (13)0) /Sata (0,0,0) /H0 (Part3.SigE75F2622-F220-4198-BEC2-605B730437C6)         bild3       HardDisk - Alias (mil)       Acpi (PMP0063.0) /Pci (13)0) /Sata (0,0,0) /H0 (Part4.Sig2CE00758-5200-4006-8761-0965185E8984)         bild5       BlockBevice - Alias (mil)       Acpi (PMP0063.0) /Pci (13)0) /Sata (0,0,0)         Acpi (PMP0063.0) /Pci (13)0) /Sata (0,0,0)       Press ESC in 1 seconds to skip startup.msh, amj other key to continue.         hell2       _	b110	Hardbick - Olize M19- Col
blk1         Removable BlockBevice - Alias 72640 fst           hcp1(CMP0003.00/Pci(1410)/Ush(0.0)         F51           hcp1(CMP0003.00/Pci(1310)/Sata(0.0.0)/HD(Part1.Sig4BE671EF-2704-4990-8B93-86836FBBAEA7           blk2         HardDisk - Alias (mull)           hcp1(CMP0003.00/Pci(1310)/Sata(0.0.0)/HD(Part1.Sig4BE671EF-2704-4990-8B93-86836FBBAEA7           blk3         HardDisk - Alias (mull)           hcp1(CMP0003.00/Pci(1310)/Sata(0.0.0)/HD(Part3.Sig275F2A22-F220-419B-8BC2-005D73037FC6           blk4         HardDisk - Alias (mull)           hcp1(CMP0003.00/Pci(1310)/Sata(0.0.0)/HD(Part3.Sig275F2A22-F220-419B-8BC2-005D73037FC6           blk4         HardDisk - Alias (mull)           hcp1(CMP0003.00/Pci(1310)/Sata(0.0.0)/HD(Part4.Sig2CED0758-5280-4BC6-8761-0965185EA984           blk5         BlockBevice - Alias (mull)           hcp1(PMP0063.00/Pci(1310)/Sata(0.0.0)           hcp1(PMP0063.00/Pci(1310)/Sata(0.0.0)           hcp1(PMP0063.00/Pci(1310)/Sata(0.0.0)           hcp1(PMP0063.00/Pci(1310)/Sata(0.0.0)	<ul> <li>blk1 :Removable BlockBerice - Alias 72840 Fs1 Acpi (PNP003.0) /Pci (1410) /Ush (0.6)</li> <li>bl2 :HardDisk - Alias (mull) Acpi (PNP003.0) /Pci (1310) /Sata (0.0.0) /HD (Part1.Sig4BE671EF-2704-4990-8803-86836FBBAEA7)</li> <li>blX3 :HardDisk - Alias (mull) Acpi (PNP003.0) /Pci (1310) /Sata (0.0.0) /HD (Part1.Sig4EE671EF-2704-4990-8803-86836FBBAEA7)</li> <li>blX3 :HardDisk - Alias (mull) Acpi (PNP003.0) /Pci (1310) /Sata (0.0.0) /HD (Part3.SigE75F2A22-F220-419B-8EC2-005D73037FC6)</li> <li>blX3 :HardDisk - Alias (mull) Acpi (PNP00403.0) /Pci (1310) /Sata (0.0.0) /HD (Part3.SigE75F2A22-F220-419B-8EC2-005D73037FC6)</li> <li>blX3 :HardDisk - Alias (mull) Acpi (PNP00403.0) /Pci (1310) /Sata (0.0.0) /HD (Part4.Sig2CED0758-5260-4806-8761-0965105En9B4)</li> <li>blX5 :BlockBevice - Alias (mull) Acpi (PNP00403.0) /Pci (1310) /Sata (0.0.0)</li> <li>Acpi (PNP00403.0) /Pci (1310) /Sata (0.0.0)</li> <li>Acpi (PNP00403.0) /Pci (1310) /Sata (0.0.0)</li> <li>Acpi (PNP00403.0) /Pci (1310) /Sata (0.0.0)</li> </ul>	blk1: Removable BlockBerler - Allas 72840 Fs1         hcp1(CMP0003.00/Pc1(1410)/Ush0.0)         bl2: HsrdDisk - Allas (mull)         hcp1(CMP0003.00/Pc1(1310)/Sata(0.0.0)/HD(Part1.Sig4BE671EF-2704-4990-8893-86836FBB0E87)         bl2: HsrdDisk - Allas (mull)         hcp1(CMP003.00/Pc1(1310)/Sata(0.0.0)/HD(Part1.Sig4BE671EF-2704-4990-8893-86836FBB0E87)         bl3: HsrdDisk - Allas (mull)         hcp1(CMP00403.00/Pc1(1310)/Sata(0.0.0)/HD(Part3.SigE75F2422-F220-419B-BEC2-405B73437FC6)         bl4: HsrdDisk - Allas (mull)         hcp1(CMP00403.0)/Pc1(1310)/Sata(0.0.0)/HD(Part4.Sig2CED0758-5200-4006-8761-0965185E8984)         bl5: BlockBerice - Allas (mull)         hcp1(PMP0403.0)/Pc1(1310)/Sata(0.0.0)         hcp1(PMP0403.0)/Pc1(1310)/Sata(0.0.0)         bl5: BlockBerice - Allas (mull)         hcp1(PMP0403.0)/Pc1(1310)/Sata(0.0.0)         hcp1(PMP0403.0)/Pc1(1310)/Sata(0.0.0)         bl5: BlockBerice - Allas (mull)         hcp1(PMP0403.0)/Pc1(1310)/Sata(0.0.0)         Press ESC in 1 seconds to skip startup.nsh, any other key to continue.         hcp1)	blk1       :Removable BlockNevice - Allas (2260 fs)         blk1       :Removable BlockNevice - Allas (2260 fs)         bl2       :HardDisk - Allas (unll)         hcpi(PNP003.0) /Pci(1310) /Sata(0.0.0) /HD (Part1.Sig4EE671EF-27A4-4990-8B93-86836FBBAEA7         bl2       :HardDisk - Allas (unll)         hcpi(PNP003.0) /Pci(1310) /Sata(0.0.0) /HD (Part1.Sig4EE671EF-27A4-4990-8B93-86836FBBAEA7         bl3       :HardDisk - Allas (unll)         hcpi(PNP0043.0) /Pci(1310) /Sata(0.0.0) /HD (Part1.Sig2EE06758-5280-4B06-8761-0965185EA984         bl3       :HardDisk - Allas (unll)         hcpi(PNP0043.0) /Pci(1310) /Sata(0.0.0)         hcpi(PNP0043.0) /Pci(1310) /Sata(0.0.0)         hcpi(PNP0043.0) /Pci(1310) /Sata(0.0.0)         hcpi(INP0043.0) /Pci(I310) /Sata(0.0.0)         hcpi(INP0043.0) /Pci(I310) /Sata(0.0.0)         hcpi(INP0043.0) /Pci(I310) /Sata(0.0.0)         hcpi(INP0043.0) /Pci(I310) /Sata(0.0.0)	<ul> <li>bild: Removable BlockBerice - Alias 72640 fs1         Acpi (PMP0403.0)/Pci (1410)/bab (0.6)</li> <li>bil2: HardDisk - Alias (mull)         Acpi (PMP0403.0)/Pci (1310)/Sata (0.0.0)/HD (Part1.Sig4BE671EF-27A4-4990-8893-86836FBBMEA7)</li> <li>bil3: HardDisk - Alias (mull)         Acpi (PMP04003.0)/Pci (1310)/Sata (0.0.0)/HD (Part1.Sig4BE671EF-27A4-4990-8893-86836FBBMEA7)</li> <li>bil4: HardDisk - Alias (mull)         Acpi (PMP04003.0)/Pci (1310)/Sata (0.0.0)/HD (Part1.Sig4E671EF-27A4-4990-8893-86836FBBMEA7)</li> <li>bil4: HardDisk - Alias (mull)         Acpi (PMP0403.0)/Pci (1310)/Sata (0.0.0)/HD (Part3.SigE75F2A22-F220-4198-BE22-405D73A37PCG)</li> <li>bil4: HardDisk - Alias (mull)         Acpi (PMP0403.0)/Pci (1310)/Sata (0.0.0)/HD (Part4.Sig2CED8758-5280-4BC6-8761-0965185E6984)</li> <li>bil5: BlockDevice - Alias (mull)         Acpi (PMP0403.0)/Pci (1310)/Sata (0.0.0)</li> <li>Press ESC in 1 seconds to skip startup.msh, any other key to continue.         Shell&gt; _</li> </ul>	OINO	0cmi (PNP0c07.6) /Pci (1310) /Sata (0.0.0) /MD (Dart2 Sin63202095-5490-4690-01FC-809001058F30)
Bill         Handback Discrete         Hills (0.6)           Bill         :HardDisk - Allas (mill)         Acpi (PMP0063.0)/Pci (1310) /Sata (0.6.0) /HD (Part1.Sig4BE671EF-2704-4990-8B93-86836FBBAEA7)           bill         :HardDisk - Allas (mill)         Acpi (PMP0063.0) /Pci (1310) /Sata (0.6.0) /HD (Part1.Sig4BE671EF-2704-4990-8B93-86836FBBAEA7)           bill         :HardDisk - Allas (mill)         Acpi (PMP0063.0) /Pci (1310) /Sata (0.6.0) /HD (Part3.SigE75F2622-F220-419B-8EC2-605D73037FC6)           bill         :HardDisk - Allas (mill)         Acpi (PMP0063.0) /Pci (1310) /Sata (0.6.0) /HD (Part4.Sig2CED8758-5260-4BC6-8761-0965185En9B4)           bill         :HardDisk - Allas (mill)         Acpi (PMP0063.0) /Pci (1310) /Sata (0.6.0)           Acpi (PMP0063.0) /Pci (1310) /Sata (0.6.0)         :HD (Part4.Sig2CED8758-5260-4BC6-8761-0965185En9B4)           bill         :Blocklewice - Allas (mill)         Acpi (PMP0063.0) /Pci (1310) /Sata (0.6.0)           'ress ESC in 1 seconds to skip startup.nsh, any other key to continue.         Acpi (PMP0063.0) /Pci (1310) /Sata (0.6.0)	With analysis in backgrowth and a product of the p	Horn Subsciepting Induced for the startup.msh. any other key to continue.           hep (PMP000.0)/Fci (1410) //shk 00.0)           b112: HardDisk = Allas (m11)           hep (PMP000.0)/Fci (1310) //shk 00.0)           hep (PMP000.0)/Fci (1310)//shk 00.0)	Hamiltonic Michael Content (1410) / Mak (0.0)         b112: HardDisk - Allas (mull)         Acpi (MN9063.0) / Pci (1310) / Sata (0.0.0) /HD (Part1.Sig4BE671EF-27A4-4990-8B93-86836FBBAEA7         b113: HardDisk - Allas (mull)         Acpi (MN9063.0) / Pci (1310) / Sata (0.0.0) /HD (Part3.Sig2F5F2A22-F220-419B-8E22-A05D73A37FC6         b114: HardDisk - Allas (mull)         Acpi (MN9063.0) / Pci (1310) / Sata (0.0.0) /HD (Part3.Sig2F2E075B-5280-4DC6-B761-0965185E09B4         b114: HardDisk - Allas (mull)         Acpi (MN9063.0) / Pci (1310) / Sata (0.0.0) /HD (Part4.Sig2CED075B-5280-4DC6-B761-0965185E09B4         b14: HardDisk - Allas (mull)         Acpi (MN9063.0) / Pci (1310) / Sata (0.0.0)         Acpi (MN9063.0) / Pci (1310) / Sata (0.0.0)         Press ESC in 1 seconds to skip startup.msh, any other key to continue.         hell>_	Hardboard Brocked First Inflig 100 (26b 007)           Acp (PMP0063.0)/Pci (1310) (26b 00.0)           bil2         :Hardbisk - Allas (mil)           Acp (PMP0063.0)/Pci (1310) (26b 00.0)           Hardbisk - Allas (mil)           Acp (PMP0063.0)/Pci (1310) (26b 00.0)           Hardbisk - Allas (mil)           Acp (PMP0063.0)/Pci (1310) (26b 00.0)           Hardbisk - Allas (mil)           Acp (PMP0063.0)/Pci (1310) (26b 00.0)           Hardbisk - Allas (mil)           Acp (PMP0063.0)/Pci (1310) (26b 00.0)           Hardbisk - Allas (mil)           Acp (PMP0063.0)/Pci (1310) (26b 00.0)           Hardbisk - Allas (mil)           Acp (PMP0063.0)/Pci (1310) (26b 00.0)           Hardbisk - Allas (mil)           Acp (PMP0063.0)/Pci (1310) (26b 00.0)           Hardbisk - Allas (mil)           Acp (PMP0063.0)/Pci (1310) (26b 00.0)           Hardbisk - Allas (mil)           Acp (PMP0063.0)/Pci (1310) (26b 00.0)           Hardbisk - Allas (mil)           Acp (PMP0063.0)/Pci (1310)           Sata (0.0.0)           Acp (PMP0063.0)/Pci (1310)           Sata (0.0.0.6)           Press ESC in 1 seconds to skip startup.nsh, any other key to continue.           hell> _	blk1	Remonable Ricklighter - Aliae (2020 fel
blk2         HardDisk - Allas (mll)           Acpl (PMP0003.00 /Pci (1310) /Sata (0.0.0) /HD (Part1.Sig4BE671EF-2704-4990-8B03-86836FBB0E87           blk3         HardDisk - Allas (mull)           Acpi (PMP0003.00 /Pci (1310) /Sata (0.0.0) /HD (Part3.SigE75F2022-F220-419B-BDC2-005D73037FC6           blk4         HardDisk - Allas (mull)           Acpi (PMP0003.00 /Pci (1310) /Sata (0.0.0) /HD (Part3.SigE75F2022-F220-419B-BDC2-005D73037FC6           blk4         HardDisk - Allas (mull)           Acpi (PMP000400.7Fci (1310) /Sata (0.0.0) /HD (Part4.Sig2CED8758-5280-4BC6-B761-0965185E0984           blk5         BlockNew ice - Allas (mull)           Acpi (PMP00403.0) /Pci (1310) /Sata (0.0.0)           Ymmode ice - Allas (mull)           Acpi (PMP00403.0) /Pci (1310) /Sata (0.0.0)           Ymmode ice - Allas (mull)           Acpi (PMP00403.0) /Pci (1310) /Sata (0.0.0)           Ymmode ice - Allas (mull)           Acpi (PMP00403.0) /Pci (1310) /Sata (0.0.0)           Ymmode ice - Allas (mull)           Acpi (PMP0403.0) /Pci (1310) /Sata (0.0.0)           Ymmode ice - Allas (mull)           Acpi (PMP0403.0) /Pci (1310) /Sata (0.0.0)	<pre>bil2 :HardDisk - filas (mill)</pre>	bll2       HardDisk - Allas (mull) Acpl (PMP003.00 /Pci (1310) /Sata (0.0.0) /HD (Part1.Sig4BE671EF-2?A4-4990-BB03-B6836FBBAEA7) bl3         bl33       HardDisk - Allas (mull) Acpl (PMP0043.00 /Pci (1310) /Sata (0.0.0) /HD (Part3.SigE75F2A22-F220-419B-BEC2-A05D73A37FC6) bl4         bl43       HardDisk - Allas (mull) Acpl (PMP0043.00 /Pci (1310) /Sata (0.0.0) /HD (Part4.Sig2CED075B-5280-4BC6-B761-0965185EA9B4) bl53         bl54       HardDisk - Allas (mull) Acpl (PMP0043.00 /Pci (1310) /Sata (0.0.0)         Press ESC in 1 seconds to skip startup.msh, any other key to continue. hell> _	<pre>blb2 :HardDisk = Allas (uull)</pre>	blk2 :HardDisk - Allas (onll) Acpl (PMP003.0) /Pci (1310) /Sata (0.0.0) /HD (Part1.Sig4BE671EF-27A4-4990-BB03-B6836FBBAEA7) Acpl (PMP003.0) /Pci (1310) /Sata (0.0.0) /HD (Part3.SigE75E2A22-E220-419B-BE22-A05D73A37PC6) blk4 :HardDisk - Allas (onll) Acpl (PMP0063.0) /Pci (1310) /Sata (0.0.0) /HD (Part4.Sig2CED875B-5200-4BC6-B761-0965105EA9B4) blk5 :BlockBesice - Allas (onll) Acpl (PMP0063.0) /Pci (1310) /Sata (0.0.0) Press ESC in 1 seconds to skip startup.msh. any other key to continue. Shell) _	UINI	Achi (PNPARA - A) /Pc i (1410) /leh (0.6)
<pre>bita ====================================</pre>	Action 11400       markets       markets </td <td>Action         Action         Action&lt;</td> <td>And SUMA       And Book       <t< td=""><td>Horstand         Horstand         Horstand</td><td>hlk2</td><td>HardDisk - Alias (mill)</td></t<></td>	Action         Action<	And SUMA       And Book       And Book <t< td=""><td>Horstand         Horstand         Horstand</td><td>hlk2</td><td>HardDisk - Alias (mill)</td></t<>	Horstand	hlk2	HardDisk - Alias (mill)
bit3       HardDisk - Allas (mull)         Acpi (PMP0003.00 /Pci (1310) /Sata (0.0.0) /HD (Part3.SigE75F2022-F220-419B-BEC2-055073037FC6)         bit4       HardDisk - Allas (mull)         Acpi (PMP0003.00 /Pci (1310) /Sata (0.0.0) /HD (Part4.Sig2CED0758-5200-4BC6-B761-0965185En9B4)         bit5       Blockbewice - Allas (mull)         Acpi (PMP0003.00 /Pci (1310) /Sata (0.0.0)         HardDisk - Allas (mull)         Acpi (PMP0003.00 /Pci (1310) /Sata (0.0.0)         HSE Blockbewice - Allas (mull)         Acpi (PMP0003.00 /Pci (1310) /Sata (0.0.0)         Yress ESC in 1 seconds to skip startup.msh, any other key to continue.         bell>	bik3 :HardDisk = Alias (mull) Acpl (PM09083.0) /Pci (1310) /Sata (0.0.0) /HD (Part3.SigE75F2A22-F220-4198-BE22-A05D73A37FC6) bik4 :HardDisk = Alias (mull) Acpl (PM09083.0) /Pci (1310) /Sata (0.0.0) /HD (Part4.Sig2CED8758-5280-4806-8761-0965185EA984) bik5 :Blockhewice = Alias (mull) Acpl (PM09083.0) /Pci (1310) /Sata (0.0.0) /ress ESC in 1 seconds to skip startup.msh. any other key to continue. hell> _	bit3       HardDisk - Alias (oull) Acpl (PMP0003.00 /Pci (1310) /Sata (0.0.0) /HD (Part3.SigE75F202-F220-419B-BEC2-005D73A37FC6)         bit4       HardDisk - Alias (oull) Acpl (PMP0003.00 /Pci (1310) /Sata (0.0.0) /HD (Part4.Sig2CED8750-5200-4DC6-B761-0965105En9B4)         bit5       EBOckbevice - Alias (oull) Acpl (PMP0003.0) /Pci (1310) /Sata (0.0.0)         Acpl (PMP0003.0) /Pci (1310) /Sata (0.0.0)         Press ESC in 1 seconds to skip startup.nsh. any other key to continue.         hell>_	bik3 :HardDisk - Alias (null) hepi(PMP0083.0) /Pci(1310) /Sata(0.0.0) /HD (Part4.SigE75F2A22-F220-4198-BEC2-A055173A37FC6 b1M :HardDisk - Alias (null) hepi(PMP0083.0) /Pci(1310) /Sata(0.0.0) /HD (Part4.Sig2CE08758-5280-4DC6-B761-0965185EA984 b1K5 :BlockDewice - Alias (null) hepi(PMP0083.0) /Pci(1310) /Sata(0.0.0) /Pcgs ESC in 1 seconds to skip startup.nsh, any other key to continue. hell> _	bl3: HardDisk - Alias (oull) Acpl (PMP0403.0) /Pci (1310) /Sata (0.0.0) /HD (Part3.SigE75F2A22-F220-4198-BE22-A05D73A37EG6) bl4: HardDisk - Alias (oull) Acpl (PMP0A03.0) /Pci (1310) /Sata (0.0.0) /HD (Part4.Sig2CED0758-5280-4006-B761-0965185EA9B4) bl5: BlockBeuice - Alias (oull) Acpl (PMP0A03.0) /Pci (1310) /Sata (0.0.0) Press ESC in 1 seconds to skip startup.msh. amj other key to continue. hell) _	OTAC	Acroi (PNP9907.0) /Pci (110) /Sata (0.0.0) /HD (Part1.Sta486571FF-2204-4990-8893-86836F880582)
Acpi (PMP0003.0)7Pci (1310) /Sata (0.0.0) /HD (Part3.SigE75F2A22-F220-4198-BEC2-005D73637FC6 blki HardDisk - Allas (mll) Acpi (PMP0003.00 /Pci (1310) /Sata (0.0.0) /HD (Part4.Sig2CED0758-5280-4BC6-8761-0965185EA984 blK5 :BlockNewice - Allas (mll) Acpi (PMP00603.0) /Pci (1310) /Sata (0.0.0) Tress ESC in 1 seconds to skip startup.msh. any other key to continue. hell> .	Acpl (PMP0003.0)/Pci (1310)/Sata(0.0.0)/HD (Part3.SigE75F2A22-F220-419B-BEC2-405D73A37FC6) blk :HardDisk - Allas (mull) Acpl (PMP0003.0)/Pci (1310)/Sata(0.0.0)/HD (Part4.Sig2CED075B-5280-4BC6-B761-0965185En9B4) blkS :BlockBevice - Allas (mull) Acpl (PMP0003.0)/Pci (1310)/Sata(0.0.0) Yress ESC in 1 seconds to skip startup.msh. any other key to continue. hell> _	Acpi (PMP0003.0)/Pci (1310)/Sata(0.0.0)/HD (Part3.SigE75F2022-F220-419B-BEC2-005D73037FC6) blM :HardDisk - Allas (mil)) Acpi (PMP0003.0)/Pci (1310)/Sata(0.0.0)/HD (Part4.Sig2CED0758-5200-40C6-8761-0965185EA9B4) blS :BlockNewice - Allas (mil) Acpi (PMP0003.0)/Pci (1310)/Sata(0.0.0) Press ESC in 1 seconds to skip startup.msh, any other key to continue. hell> _	Acpi(PMP9403.0)/Pci(1310)/Sata(0.0.0)/HD (Part3.SigE75F2A22-F220-419B-BEC2-A05D73A37FC6 blk :HardDisk - Allas (mull) Acpi(PMP0403.0)/Pci(1310)/Sata(0.0.0)/HD (Part4.Sig2CED075B-5200-4DC6-B761-0965185EA9B4 bls :BlockBevice - Allas (mull) Acpi(PMP0403.0)/Pci(1310)/Sata(0.0.0) Press ESC in 1 seconds to skip startup.msh. any other key to continue. Bhell>_	Acpi (PMP0003.0)7Pci (1310)/Sata(0.0.0)7HD (Part3.SigE75F2022-F220-419B-BEC2-005D73037FCG) blM: HardDisk - Allas (mll) Acpi (PMP0003.0)7Pci (1310)/Sata(0.0.0)7HD (Part4.Sig2CED075B-5200-4DC6-B761-0965105E09B4) blK5: BlockNewice - Allas (mll) Acpi (PMP0003.0)7Pci (1310)/Sata(0.0.0) Press ESC in 1 seconds to skip startup.msh. any other key to continue. Shell> _	hlk3	HardDisk - Alias (mull)
blk1         :HardDisk - Alias (null)           Acpi (MNP0A03.0) /Pci (1310) /Sata (0.0.0) /HD (Part4.Sig2CED0758-5280-4866-8761-0965185EA984           blk5         :BlockDewice - Alias (null)           Acpi (MNP0A03.0) /Pci (1310) /Sata (0.0.0)           *ress ESC in 1 seconds to skip startup.nsh, any other key to continue.           hell>	<pre>blM :HardDisk - Alias (null)</pre>	blk:       :HardDisk - Alias (mull) Acpl (PMP0003.0)/Fc1(1310)/Sata(0.0.0)/HD (Part4.Sig2CED0750-5200-4BC6-B761-0965105EA9B4)         blS:       BlockBevice - Alias (mull) Acpl (PMP0003.0)/Fc1(1310)/Sata(0.0.0)         Press ISC in 1 seconds to skip startup.msh. any other key to continue. Shell> _	blM :HardDisk - Alias (mull) hcpi(PMP0903.07/Fci(1310)/Sata(0.0.07/HD(Part4.Sig2CED0758-5200-4BC6-B761-0965185EA9B4 blNS :BlocKevice - Alias (mull) Acpi(PMP0A03.07/Fci(1310)/Sata(0.0.0) Press ESC in 1 seconds to skip startup.nsh, any other key to continue. hell> _	blk       :HardDisk - Alias (mull) Acpl (PMP0003.00 /Pci (13100 /Sata (0.0.0) /HD (Part4.Sig2CED0758-5200-4BC6-B761-0965105EA9B4)         blS       :BlockBevice - Alias (mull) Acpl (PMP0003.00 /Pci (13100 /Sata (0.0.0)         *ress       ESC in 1 seconds to skip startup.msh, any other key to continue.         hell> _	and the second	Acui (PNP0003.0) /Pci (1310) /Sata (0.0.0) /HD (Part3.SigE75F2022-F220-4198-BEC2-005D73037FC6)
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blK5 :BlockBewice - Allas (mull) Acpi(PMP0A03.0)/Pci(1310)/Sata(0.0.0) ress ESC in 1 seconds to skip startup.msh. any other key to continue. hell>	blK5       :BlockBevice - Alias (mull) Acpl (PNP0A03.0)/Pci(1310)/Sata(0.0.0)         Press ESC in 1 seconds to skip startup.msh. any other key to continue.         hell> _	blK5 :BlockBewice - Allas (mull) Acpi(PMP0A03.0)/Pri(1310)/Sata(0.0.0) Press ESC in 1 seconds to skip startup.msh. any other key to continue. hell>_	<pre>blK3 :BlockDevice - Allas (mull)</pre>	blk5 :BlockDewice - Allas (mull) Acpi(PMP0H03.0)/Pci(1310)/Sata(0.0.0) Press ESC in 1 seconds to skip startup.msh. any other key to continue. Shell>_		Acpi (PNP0A03.0) /Pci (1310) /Sata (0.0.0) /HD (Part4.Sig2CED8758-5280-48C6-8761-0965185EA984)
Acpi(PMP0A03.0)/Pci(1310)/Sata(0.0.0) ress <b>ESC</b> in 1 seconds to skip <b>startup.nsh</b> , any other key to continue. hell> _	Acp(PMP0A03.0)/Pci(1310)/Sata(0.0.0) 'ress ESC in 1 seconds to skip startup.msh, any other key to continue. hell> _	Acpi(MMP0A03.0)/Pci(1310)/Sata(0.0.0) Press ESC in 1 seconds to skip startup.nsh. any other key to continue. Shell> _	Acpi(PNP0A03.0)/Pci(1310)/Sata(0.0.0) Press ESC in 1 seconds to skip startup.nsh, any other key to continue. hell>_	Acpi(PMP0A03.0)/Pci(1310)/Sata(0.0.0) Press ESC in 1 seconds to skip startup.msh. any other key to continue. Shell>_	blkS	:BlockDevice - Alias (null)
fress ESC in 1 seconds to skip startup.nsh, any other key to continue. hell> _	ress ESC in 1 seconds to skip startup.nsh, any other key to continue. hell>_	Press <b>ESC</b> in 1 seconds to skip startup.nsh, any other key to continue. hell> _	Press ESC in 1 seconds to skip startup.nsh, any other key to continue. hell>_	Press ESC in 1 seconds to skip startup.nsh, any other key to continue. hell> _		Acpi (PNP0A03.0) /Pci (1310) /Sata (0.0.0)
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					ihe11> .	

Figure 66. Internal Shell Command Screen

- 13. If the BIOS file is in a folder and not in the root directory, navigate to the target folder.
- Type wf (.nsh) and tap Enter. wf is the designated BIOS file.
   Do not turn off your device or interfere with the reflash process until the process is complete.
- 15. Reboot the PM-521.

The BIOS is now updated.

#### **Updating EC**



Connect the PM-521 to the AC adapter to prevent a sudden loss of power.

- 1. Updating EC requires the use of the Internal Shell Command menu, refer to steps 1 to 12 of *"Updating BIOS"*.
- 2. Enter the EC source file folder.
- 3. In the source folder, enter f.
- Do not turn off your device or interfere with the reflash process until the process is complete. The system reboots once the process is completed.

# Chapter 5. Troubleshooting

Use the troubleshooting tables in this section to fix problems with the Wi-Fi connection, 802.1x security, or general problems with operating the computer.



If you send the computer in for service, it is your responsibility to save the computer data and configuration. RuggON is responsible only for ensuring that the hardware matches the original configuration when repairing or replacing the computer.

### Troubleshoot the Wi-Fi Connection

Use this troubleshooting table to help solve problems with your 802.11 radio connection.

- *Q*. When you turn on the computer after it was suspended for a while (10 to 15 minutes or longer), it can no longer send or receive messages over the network.
- A. Host may have deactivated or lost current terminal emulation session. In a TCP/IP direct connect network, turn off the "Keep Alive" message from host to maintain the TCP session while the computer is suspended.
- *Q*. The computer is connected to the network and you move to a new site to collect data. Your computer now shows you are not connected to the network.
- *A*. Move closer to an access point or to a different location to reestablish communications until you reconnect with the network.
- *Q*. The computer appears to be connected to the network, but you cannot establish a terminal emulation session with the host computer.
- **A.** There may be a problem with the host computer, or with the connection between the access point and the host computer. Check with the network administrator to make sure the host is running and allowing users to log in to the system.
- *Q*. The computer appears to be connected to the network, but the host computer is not receiving any information from the computer.
- A. There may be a problem with the connection between the access point and the host computer. Check with the network administrator or use your access point user's manual.
- Q. A network connection icon appears in the toolbar, but then disappears.
- A. The computer may not be communicating with the intended access point. Make sure the network name matches the access point network name. The access point may not be communicating with the server. Ensure the access point is turned on, properly configured, and has 802.1x security enabled.

### Troubleshoot Operating the Computer

Use this section to troubleshoot problems that may prevent you from being able to operate the computer.

- Q. You press the Power button and nothing happens.
- $A_{ullet}$  Make sure that power is connected to the computer.
- **Q.** The computer appears to be locked and you cannot enter data.
- $A_{ullet}$  Restart the computer.

### Call Product Support

Simple instructions please contact the dealer, contact ruggon representative, or leave a message visit the RuggON website at www.ruggon.com.

To better assist you have the following information ready:

- Configuration number
- Serial number
- Operating system, BIOS, and MCU versions
- Service pack version
- System component versions
- If you are using security, know the type and the full set of parameters

## Chapter 6. Maintenance

### Cleaning the Device



Danger to electric shock when cleaning or maintaining the PM-521. To avoid electric shock, turn the PM-521 off and disconnect it from the power supply before cleaning or maintaining it.

#### Housing

- The housing of the PM-521 is best cleaned with a damp cloth.
- Use compressed air, a high-pressure cleaner or vacuum cleaner may damage the surface.
- Use a high-pressure cleaner, the additional risk of water entering the PM-521 may damage the electronics or touch screen.

#### **Touch Screen**

- Use neutral detergent or isopropyl alcohol on a clean soft cloth to clean the panel surface.
- Prevent using any kind of chemical solvent, acidic or alkali solution.

### Returning the Device

Please put the contents in the original package gently when you need to return the PM-521.

### Contacting RuggON

If you experience technical difficulties, please consult your distributor or contact the technical services department:

www.ruggon.com



