Illustrated Parts & Service Map

HP Pro 3330 Small Form Factor Business PC



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Cables

1	Power switch/LED assembly	656984-001
2	SATA cable, 165 mm	657102-001
2	SATA cable, 370 mm	656833-001
*	Adapter, DVI to VGA, HF	657401-001
*	DMS-59 to Dual VGA cable	463023-001
*	PATA to SATA power adapter	449283-001

*Not shown

Mass Storage Devices (not illustrated)

16X SATA DVD±RW drive	581600-001
DVD-ROM drive	581599-001
Blu-ray BD-RW SuperMulti DL Drive	617030-001
Bezel, optical drive	657852-001
1 TB, 7200 rpm hard drive	667719-001
750 GB, 7200 rpm hard drive	632938-001
500 GB, 7200 rpm hard drive	667720-001
500 GB, 7200 rpm hard drive, 2.5 inch	686217-001
250 GB, 7200 rpm hard drive	621419-001



Miscellaneous Parts

1	Chassis fan	656834-001
2	Fan sink for use in models with Intel processors	667727-001
3	Front USB and I/O assembly	668570-001
*	Speaker with rubber rivets	666885-001
*	Mouse, PS2, optical, black	537748-001
*	Mouse, USB, laser, black	570580-001
*	Mouse, USB, optical, black	537749-001
*	Rubber feet	660261-001
*	Serial port kit	638815-001
*	Printer port kit	638817-001
*	USB powered speakers	636917-001
*	Drive adapter, 2.5 inch	586721-001

*Not shown

Key Specifications

Processor Type	Intel® Core i7, i5, i3, Pentium, Celeron	
RAM Туре	PC3-10600 DDR3 (1066/1333 MHz), non-ECC	
Maximum RAM	8 GB	
Expansion Slots	 (1) PCIe-x16 (1) PCIe-x1 (2) PCI 	
Chipset	Intel H61	
Graphics Adapter	Integrated Intel HD Graphics	
Bays	(1) external 5.25-inch(1) internal 3.5-inch	
I/O Interfaces	Front: (2) USB 2.0, headphone Rear: (4) USB 2.0, DVI-D, VGA, HDMI, PS/2 keyboard and mouse, audio in, audio out, RJ-45, serial	
Preinstalled Operating Systems	 Windows® 8 Windows 7 RedFlag Linux 	

Spare Parts





System Unit

1	Access panel	656832-001		
2	Front bezel	668569-001		
3	Power supply, 220W	656722-001		
*	Power supply, 270W	665224-001		
Sys	tem boards with thermal grease, alcohol pad, and CPU socket cover			
4	System board	663099-001		
*	System board for use in 3330 models with NetClone	711493-001		
*	System board for use in 3330 models with Windows 8 with no Digital Product Key (DPK)	702644-001		
*	System board for use in 3330 models with Windows 8 Standard	702644-501		
*	System board for use in 3330 models with Windows 8 Professional	702644-601		
* N	* Not shown			

Standard and Optional Boards

Memory modules (PC3-10600, CL9)				
*	1 GB 63580			
*	2 GB	635803-001		
*	* 4 GB			
Gra	phics cards			
*	ATI Radeon HD 6350 512-MB graphics adapter	637995-001		
*	ATI Radeon HD 6450 512-MB graphics adapter	637996-001		
*	nVidia Quadro NVS300 PCIe x16 graphics card, 512 MB, PCIe x16	632486-001		
*	nVidia Quadro NVS300 PCIe x16 graphics card, 512 MB, PCIe x1	632827-001		
*	ATI Radeon HD 7450 1-GB graphics adapter	682411-001		
Oth	er boards			
*	Intel Gigabit NIC, includes bracket	490367-001		
*	HP USB 3.0 SuperSpeed PCIe x1 card	663213-001		
Inte	el Core i7 processors (include thermal material)			
*	2600, 3.4 GHz, 8-MB L3 cache	638632-001		
Inte	el Core i5 processors (include thermal material)			
*	2500, 3.3 GHz, 6-MB L3 cache	638631-001		
*	2400, 3.1 GHz, 6-MB L3 cache	638630-001		
*	2320, 3.0 GHz, 6-MB L3 cache	665121-001		
Inte	el Core i3 processors (include thermal material)	•		
*	2130, 3.4 GHz, 3-MB L3 cache	665120-001		
*	2120, 3.3 GHz, 3-MB L3 cache	638629-001		
*	2100, 3.1 GHz, 3-MB L3 cache	638628-001		
Inte	Intel Pentium Dual-Core processors (include thermal material)			
*	G870, 3.1 GHz, 3-MB L3 cache	691936-001		
*	G860, 3.0 GHz, 3-MB L3 cache	665123-001		
*	G850, 2.9 GHz, 3-MB L3 cache	655973-001		
*	G840, 2.8 GHz, 3-MB L3 cache	655972-001		
*	G620, 2.6 GHz, 3-MB L3 cache	655971-001		
Intel Celeron Dual-Core processors (include thermal material)				
*	G550, 2.6 GHz, 2-MB L3 cache	691934-001		
*	G540, 2.5 GHz, 2-MB L3 cache	666892-001		
*	G530, 2.4 GHz, 2-MB L3 cache	666891-001		
*	G440, 1.6 GHz, 1-MB L3 cache	665467-001		
-				

* Not shown

System Board



ATX_POWER	Main power connector	PCIEX16	PCIe X16 expansion slot
HOOD_SENSOR	Hood sensor connector	AUDIO	Audio connectors
CLR_PASS	Password header	PS2	Legacy keyboard and mouse connectors
CLR_CMOS	CMOS header	VGA+COM1	Monitor+serial connector
SATA0	1st hard drive	DVI	DVI connector
SATA1	2nd hard drive	LAN+USB	LAN + USB connector
SATA2	1st optical drive	USB1	USB connectors
SATA3	2nd optical drive	J25	Parallel port connector
F_PANEL	Front panel connector	COM2	2nd serial port connector
F_USB1	1st USB connector	SYS_FAN	Fan connector
F_USB2	2nd USB connector	ATX_CPU	CPU power connector
INT_SPRK	Speaker connector	CPU HS	Processor socket
F_AUDIO	Front audio connector	CPU_FAN	Heat sink fan connector
J21	PCI expansion slot	XMM1	Memory socket - Channel A
J20	PCI expansion slot	XMM3	Memory socket - Channel B
SPDIF_OUT1	S/PDIF audio connector	BAT	RTC battery socket
PCIEX1_1	PCIe x1 expansion slot		

Common POST Error Messages

Screen Message	Probable Cause	Recommended Action
101-Option ROM Error	System ROM or expansion board option ROM checksum.	 Verify ROM, reflash if required Remove recently added cards to see if problem remains. Clear CMOS. If message disappears, may be card problem. Replace system board
103-System Board Failure	DMA or timers	 Clear CMOS memory. Remove expansion boards. Replace system board.
163-Time & Date Not Set	Invalid time or date in configu- ration memory. RTC battery may need to be replaced.	Reset the date and time under Control Panel (Com- puter Setup can also be used). If the problem per- sists, replace the RTC battery.
164-Memory Size Error	Memory amount has changed since the last boot (memory added/removed).	Press the F1 key to save the memory changes.
164-Memory Size Error	Incorrect memory configura- tion	 Run Setup (F10). Make sure memory module(s) installed properly. If third-party memory added, test using HP-only memory. Verify proper module type.
201-Memory Size Error	RSM failure	 Ensure memory modules are correctly installed. Verify proper module type. Remove and replace faulty module(s). If error persists after replacing modules, replace system board.
214-DIMM Config- uration Warning	Populated DIMM configura- tion is not optimized	Rearrange DIMMs so that each channel has the same amount of memory.
219-ECC Memory Module Detected ECC Modules not supported on this Platform	Recently added memory mod- ule(s) support ECC memory error correction.	 If additional memory was recently added, remove it to see if the problem remains. Check product documentation for memory support information.
301-, 304-Keyboard error	Keyboard failure.	 Reconnect keyboard with system turned off. Check kybd connection or keys. Check connector for bent or missing pins. Replace keyboard. If 304, possible sys bd problem.
511-CPU Fan not Detected	CPU Fan not Detected.	 Reseat CPU fan. Reseat fan cable. Replace CPU fan.
1805-Ambient Tem- perature Previously Over Limit	This system was placed in a low power state to prevent damage due to excessive envi- ronmental temperature.	 Make sure the system meets the HP enclosure guidelines as listed in the Quick Specs, including the following: 1. Clean the air vents on the front, back, or any other vented side of the computer. 2. Ensure that there is a 10.2 cm (4 in) clearance on all vented sides of the computer to permit the required airflow. 3. Ensure that computers are not so near each other that they are subject to each other's re-circulated or preheated air.
2200-PMM Alloca- tion Error during MEBx Download 2201-MEBx Mod- ule did not checksum correctly 2202-PMM Deallo- cation Error during MEBx cleanup	(2200) Memory error during POST execution of the Man- agement Engine (ME) BIOS Extensions option ROM. (2201) Memory error during POST execution of the Man- agement Engine (ME) BIOS Extensions option ROM. (2202) Memory error during POST execution of the Man- agement Engine (ME) BIOS Extensions option ROM.	 Reboot the computer. Unplug the power cord, re-seat the memory modules, and reboot the computer. If the memory configuration was recently changed, unplug the computer, restore the original memory configuration, and reboot the computer. If the error persists, replace the system board.
2230-General error during MEBx execu- tion 2231-ME error dur- ing MEBx execution 2232-AMT error during MEBx execu- tion	(2230) Error occurred during MEBx execution which fails into the "General" grouping. Status information displayed along with the error provides further clarity into the failure. MEBx handles transference of information between the sys- tem BIOS and ME firmware. (2231) Error occurred during MEBx execution which fails into "ME" grouping. (2232) Error occurred during MEBx execution which fails into "ME" grouping.	 Reboot the computer. If the error persists, update to the latest BIOS version and ME firmware version. If the error still persists, replace the system board.

Diagnostic LEDs

LED	Color	LED Activity	State/Message
Power	Green	On	Computer on
Power	Green	1 blink every 2 seconds	Normal Suspend Mode
Power	Red	1 blink every second followed by a 2 second pause	CPU thermal shutdown
Power	Red	3 blinks, 1 blink every second followed by a 2 second pause	Processor not installed
Power	Red	4 blinks, 1 blink every second followed by a 2 second pause	Power failure (power supply overload)
Power	Red	5 blinks, 1 blink every second followed by a 2 second pause	Pre-video memory error
Power	Red	6 blinks, 1 blink every second followed by a 2 second pause	Pre-video graphics error
Power	Red	7 blinks, 1 blink every second followed by a 2 second pause	System board failure (ROM
Power	Red	8 blinks, 1 blink every second followed by a 2 second pause	Invalid ROM based on Checksum
Power	Red	9 blinks, 1 blink every second followed by a 2 second pause	System powers on but is unable to boot
Power	Red	10 blinks, 1 blink every second followed by a 2 second pause	Bad option card
Power	Red	11 blinks, 1 blink every second followed by a 2 second pause	Current processor does not support a feature previously enabled.
none	none	System does not power on and LEDs are not flashing	System unable to power on

Password Security

Establishing a Setup or Power-On password:

- 1. Turn on or restart the computer.
- 2. As soon as the computer turns on, press the Esc key while "Press the ESC key for Startup Menu" message is displayed at the bottom of the screen. 3. Press the F10 key to enter Computer Setup. 4. To establish Setup password, select Security > Setup Password and follow the instructions.
- To establish a Power-On password, select Security > Power-On Password and follow the instructions on the screen

5. Before exiting, click File > Save Changes and Exit.

Changing a Setup or Power-On password:

1. Turn on or restart the computer.

To change the Setup password, go to step 2. To change the Power-on password, go to step 3.

- 2. As soon as the computer turns on:
- Press the Esc key while "Press the ESC key for Startup Menu" message is displayed. - Press the F10 key to enter Computer Setup.
- 3. When the key icon appears, type your current password, a slash (/) or alternate delimiter character, your new password, another slash (/) or alternate delimiter character, and your new password again as shown:
- current password/new password/new password. NOTE: Type the new password carefully since the characters do not appear on the screen.

4. Press Enter.

The new password will take effect the next time the computer is restarted.

Deleting a Power-On or Setup password

1. Turn on or restart the computer

- To delete the Setup password, go to step 2.
- To delete the Power-On password, go to step 3.
- As soon as the computer turns on:
 Press the Esc key while "Press the ESC key for Startup Menu" message is displayed. - Press the F10 key to enter Computer Setup
- 3. When the key icon appears, type your current password followed by a slash (/) or alternate delimiter character as shown. Example: currentpassword/
- 4. Press Enter.

Clearing CMOS

- 1. Turn off the computer and disconnect the power cord from the power outlet.
- 2. Remove the access panel.
- 3. On the system board, locate the CLR_CMOS header.
- 4. Remove the jumper from pins 2 and 3.
- 5. Place the jumper on pins 1 or 2.
- 6. Replace the jumper on pins 2 and 3.
- 7. Replace the chassis access panel and reconnect the power cord.
- 8. Turn on the computer and allow it to start.

Clearing Passwords

- 1. Turn off the computer and disconnect the power cord from the power outlet.
- 2. Remove the access panel.
- 3. On the system board, locate the CLR_PASS header.
- 4. Remove the jumper from pins 2 and 3.
- 5. Place the jumper on pins 1 or 2.
- 6. Replace the jumper on pins 2 and 3.
- 7. Replace the chassis access panel and reconnect the power cord.
- 8. Turn on the computer and allow it to start.

System Setup and Boot

Access the Setup Utility during computer boot by pressing the F10 key. If you do not press F10 at the appropriate time, you must restart the computer and again press F10 when the monitor light turns green. NOTE: Not all settings are available for all models.

Computer Setup Menu

Heading	Option/Description		
File	System Information - Lists the following main system specifications:		
	Product name System BIOS SKU number (some models) Processor type/speed/stepping Cache size (L1/L2/L3) Installed memory size/speed/ch Integrated MAC Address System BIOS Chassis serial number Asset tracking number ME firmware version ME management mode		
	About - Displays copyright notice.		
	Set Time and Date - Allows you to set system time and date.		
	Replicated Setup - Allows you to save or restore system configuration to/from a USB flash drive.		
	Default Setup - Allows you to save current settings as default or restore factory settings as default.		
	Apply Defaults and Exit - Applies the selected default settings and clears any established passwords.		
	Ignore Changes and Exit - Exits Computer setup without saving changes.		
	Save Changes and Exit - Saves changes to system configuration or default set- tings and exits Computer Setup.		
Storage	Device Configuration - Lists all installed BIOS-controlled storage devices. The following options are available:		
	 CD-ROM Hard Disk Default Values Translation Mode SSTA Defaults 		

Sonce in the importing Voernice Bool Order Security Security Allows to you enable/disable: Ack Legay Resources Setup Browse Mode Password 2 perturn of P & F12 Network Server Mode Security Control Point Control (Control (Cont)))))))	Storage (continued)	 Storage Options - Allows you to set: eSATA Port - Set SATA port as eSATA port for use with external drive. SATA Emulation - Choose how the SATA controller and devices are accessed by the OS. SATA Emulation choices are AHCI, RAID, or IDE. Removable Media Boot - Enables/disables ability to boot the system from removable media. Max eSATA Speed - Allows you to choose 1.5 Gbps or 3.0 Gpbs as the maximum eSATA speed. By default, the speed is limited to 1.5 Gbps for maximum reliability. DPS Self-Test - Execute self-tests on ATA hard drives capable of performing the Drive Protection System (DPS) self-tests. Boot Order - Specify boot order for UEFI and legacy boot sources. Also specify hard drive boot order.
Sectiny Sectiny Estimation for Secting Control Section 2015 Parsword Options - Allows to you enable/disable: In Carl, Legars Resources Setup Enrowse Mode Parsword Options - Allows to you enable/disable: In Carl, Legars Resources Setup Enrowse Mode Parsword Topmon DP & F12 Parsword Topmon Potent Set F12 In Network Server Mode Parsword Options - Allows you to lock/unlock the smart cover and set the cover removal sensor to disable/notify user/setup parsword. Device Security - Set Device Available/Device Hidden for front USB ports, rear USB ports, internal USB ports, accessory USB ports. Network Boot - Enables/disables boot from OS (NIC models only). System Dr Allows you to update asset tag, ownership tag, UUD, keyboard boat secting. Nater Boot Record Security - enables/disables MBR. System Dr Allows you to set: Data Execurity - Allows you to set: O Data Execurition Technology (VT) (canble/disable) Virtualization Technology (VT) (canble/disable) Virtualization Technology (VT) (canble/disable) System Dr Allows you to assign or modify a master or user password for hard drives. System Dr Allows you to set: OS management of Embedded Security Device (mable/disable) Virtualization Technology (VT) (canble/disable) O	Somity	Shortcut to Temporarily Override Boot Order Satur Descured Set and apple the satur (Admin) password
Password Options - Allows to you enable/disable: 1 Lock Legary Recourses Setup Browse Mode Password prompt on F9 & F12 Network Server Mode Simmar Cover - Allows you to lock/unlock the smart cover and set the cover removal sensor to disable/notify user/stup password. Device Security - Set Device Available/Device Hidden for from USB ports, and SATA ports. Simmar Cover - Allows you to lock/unlock the smart cover and set the cover removal assort of disable/notify user/stup password. USB Security - Set Device Available/Device Hidden for from USB ports, and SATA ports. Network Boot - Enables/disables boot from OS (NIC models only). System Ds - Allows you to update asset tag, ownership tag, UUID, keyboard locale setting. Master Boot Record Security - enables/disables MBR. System Tos - Allows you to setting (enable/disable). • Wirmalization Technology (DT) (enable/disable) • Normalization Technology (DT) (enable/disable) • Reset to Facroy Setting CD on reset/Reset) • Measure boot variables/devices to PCR1 (enable/disable) • No PPI policy to be changed by OS (enable/disable) • Reset to Facroy Setting CD on reset/Reset) • Measure boot Variables/devices to PCR1 (enable/disable) • Sccure Boot (enable/disable) • Sccure Boot Configuration (Windows 8 only)	Security	Power-On Password - Set and enable power-on password.
		Password Options - Allows to you enable/disable:
• Pas/word prompt on F9 & F12 • Network Server Mode Smart Cover - Allows you to lock/unlock the smart cover and set the cover removal sensor to disable/notify user/setup password. prof. USB Security - Set Device Available/Device Hidden for embedded security device, system andio, network controller, USB controller, serial/parallel ports, and SATA ports. USB Security - Disable the PCI, PCIe, and Mini Card slots. Network Boot - Enables/disables boot from OS (NIC models only). System DS - Allows you to update asset tag, ownership tag, UUID, keyboard lical-setting. Master Boot Record Security - enables/disables MBR. System Security - Allows you to update asset tag, ownership tag, UUID, keyboard lical-setting. • Virtualization Prevention (enable/disable) • Virtualization Technology (VT) (cnable/disable) • Virtualization Technology (VT) (cnable/disable) • Reset to Factors Security Device (nable/disable) • Core Boot (enable/disable) • Secure Boot Configuration (Windows 8 only) • Legacy Support (enable/disable) • Secure Boot Configuration (Windows 8 only)<		 Lock Legacy Resources Setup Browse Mode
Smart Cover - Allows you to lock/unlock the smart cover and set the cover removal sensor to disable/notify user/setup password. Device Security - Set Device Available/Device Hidden for embedded security device, system audio, network controller, USB controller, serial/parallel ports, and SATA ports. USB Security - Set Device Available/Device Hidden for front USB ports, near USB ports, internal USB ports, accessory USB ports. Stot Security - Stable the PCI, PCI, PCI, and Mini Card slots. Network Boot - Enables/disables boot from OS (NIC models only). System Diso- Allows you to update asset tag, ownership tag, UUID, keyboard local setting. Master Boot Record Security - enables/disables MBR. System Security - Allows you to set: • Strate Execurity - Chenhology (VT) (cnable/disable) • Virtualization Technology (VT) (cnable/disable) • Virtualization Technology (VT) (cnable/disable) • Trasted Execurity Device (nable/disable) • Reset to Factory Settings (Do not reset/Reset) • Messure boot variables/devices to PCR1 (cnable/disable) • Co S management of Embedded Security Device (mable/disable) • No PPI povisoring (Windows 8 only) • Legacy Support (enable/disable) • Secure Boot Configuration (Windows 8 only) • Legacy Support (enable/disable) • Secure Boot Configuration (Windows 8 only) • Legacy Support (enable/disable) • Fast Boot (enable/disable) • Fost made (enable/disable) • Fost mode (enable/disable) • Fost mostage (en		Password prompt on F9 & F12 Network Server Mode
Device Security - Set Device Available/Device Hidden for: embedded security device, system audio, network controller, USB controller, seral/parallel ports, and SATA ports. USB Security - Set Device Available/Device Hidden for front USB ports, reare USB ports, sinemal USB ports, accessory USB ports. Slot Security - Disable the PCI, PCIe, and Mini Card slots. Network Boot - Enables/disables boot from OS (NIC models only). System IDs - Allows you to update asset tag, ownership tag, UUD, keyboard local setting. Master Boot Record Security - enables/disables/ Master Boot Record Security - enables/disable). • Virtualization Technology (VTS) (enable/disable) • Trusted Execution Technology (Camble/disable) • Measure boot variables/devices to PCR (Camble/disable) • Measure boot variables/devices to PCR (Camble/disable) • No PPI provisioning (Windows 8 only) • Legacy Support (enable/disable) • No PPI provisioning (Windows 8 only) • Legacy Support (enable/disable) • Reset to Enclevice Boot (enable/disable) • Reset to Enclevice Boot (enable/disable) • Nerey-Go Qinices. Allows you to set: • Allow PPI policy to be chang		Smart Cover - Allows you to lock/unlock the smart cover and set the cover removal sensor to disable/notify user/setup password.
USB Security - Set Device Available/Device Hidden for front USB ports, internal USB ports, accessory USB ports. Stot Security - Disable the PCI, PCIe, and Mini Card slots. Network Boot - Enables/disables boot from OS (NIC models only). System IDs - Allows you to update asset tag, ownership tag, UUID, keyboard locale setting. Master Boot Record Security - enables/disables System Security - Allows you to set: • Data Execution Trevention (enable/disable) • Virtualization Technology (Tx) (enable/disable) • Virtualization Technology (rable/disable) • Virtualization Technology (Tx) (enable/disable) • Virtualization Technology (rable/disable) • Reset to Factory Settings (Do not reset/Reset) • Measure boot variables/devices to PCR1 (enable/disable) • No PPI provisoning (Windows 8 only) • Leggery Support (enable/disable) • No PPI provisoning (Windows 8 only) • Leggery Support (enable/disable) • Key Management - Allows you to sasign or modify a master or user password for hard drives. • Reset O Endbe/disable) • No PPI porvisoning (Windows 8 only) • Leggery Support (enable/disable) • No PPI porvisoning (Windows 8 only) • Leggery Support (enable/disable) • Reset Boot (enable/disable)		Device Security - Set Device Available/Device Hidden for: embedded security device, system audio, network controller, USB controller, serial/parallel ports, and SATA ports.
Slot Security - Disable the PCI, PCIe, and Mini Card slots. Network Boot - Enables/disables boot from OS (NIC models only). System IDs - Allows you to update asset tag, ownership tag, UUID, keyboard locale setting: Master Boot Record Security - enables/disables Wirtuilization Prevention (enable/disable) • SYM CPU Virtualization (enable/disable) • Virtualization Technology (VTX) (enable/disable) • Virtualization Technology (VTX) (enable/disable) • Trusted Execution Technology (VTX) (enable/disable) • Trusted Execution Technology (VTX) (enable/disable) • Reset to Factory Settings (On our reset/Reset) • Measure boot variables/devices to PCR1 (enable/disable) • Reset of Enbedded Security Device (enable/disable) • No PP1 provisioning (Windows 8 only) • Leage Support (enable/disable) • No PP1 provisioning (Windows 8 only) • Leage Support (enable/disable) • Secure Boot Configuration (Windows 8 only) • Leage Support (enable/disable) • Secure Boot Configuration (Windows 8 only) • Leage Support (enable/disable) • Secure Boot Configuration (Windows 8 only) • Leage Support (enable/disable) • Secure Boot Configuration (Windows 8 only) • Leage Support (en		USB Security - Set Device Available/Device Hidden for front USB ports, rear USB ports, internal USB ports, accessory USB ports.
Network Boot - Enables/disables boot from OS (NIC models only). System IDs - Allows you to update asset tag, ownership tag, UUID, keyboard locale setting. Master Boot Record Security - enables/disables MBR. System Security - Allows you to set: Data Execution Prevention (enable/disable) System CPU Virtualization (enable/disable) Virtualization Technology (CTS) (enable/disable) Trusted Execution Technology (Do not reset/Rest) Reset of Factory Settings (Do not reset/Rest) Massure boot variables/devices to PCR1 (enable/disable) Reset of Enabedded Security Device (mable/disable) Reset of Enabedded Security Device (mable/disable) No PPI provisioning (Windows 8 only) Legacy Support (enable/disable) Secure Boot Configuration (Windows 8 only) Legacy Support (enable/disable) Secure Boot Configuration (Windows 8 only) Legacy Support (enable/disable) Secure Boot Configuration (Windows 8 only) Legacy Support (enable/disable) Power Management - Allows you to enable/disable Runtime Power Management, Jale Power Savings, PCI slots, network controller, USB 3.0 controller Thermal - Control minimum fan speed. Advanced POWer Management - Enabe/disable SATA power management, S5 maximum power savings, PCI slots, netwo		Slot Security - Disable the PCI, PCIe, and Mini Card slots.
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Master Boot Record Security - enables/disables MBR. System Security - Allows you to set: Data Execution Prevention (enable/disable) SVM CPU Virtualization (enable/disable). Virtualization Technology (UTs) (enable/disable) Transted Execution Technology (enable/disable) Embedded Security Device (enable/disable) Reset to Factory Settings (Do not reset/Reset) Measure boot variables/devices to PCR1 (enable/disable) Reset of Embedded Security Device (neable/disable) Reset of Embedded Security Device (neable/disable) Not PDI provisioning (Windows 8 only: enable/disable) Not PDI provisioning (Windows 8 only) Legacy Support (enable/disable) Secure Boot (enable/disable) Key Management (enable/disable) Secure Boot (enable/disable) Secure Boot (enable/disable) Fast Boot (enable/disable) Secure Boot (enable/disable) Power On Options - Allows you to enable/disable Runtime Power Management, LS maximum nower savings, PCI sloks, network controller <		System IDs - Allows you to update asset tag, ownership tag, UUID, keyboard locale setting.
System Security - Allows you to set: Data Execution Prevention (enable/disable) SVM CPU Virtualization (enable/disable) Virtualization Technology/Directed IO (VTd) (enable/disable) Trusted Executiny Device (enable/disable) Embedded Security Device (enable/disable) Reset to Factory Settings (Do not reset/Reset) Measure boot variables/devices to PCR1 (enable/disable) Reset of Embedded Security Device (enable/disable) No PPI provisioning (Windows 8 only: enable/disable) No PPI provisioning (Windows 8 only: enable/disable) Divel_Lock Security - Allows you to assign or modify a master or user password for hard drives. Secure Boot Configuration (Windows 8 only) - Legacy Support (enable/disable) - Secure Boot Configuration (Windows 8 only) - Secure Boot (enable/disable) - Secure Boot (enable/disable) - Secure Boot (enable/disable) - Secure Boot (enable/disable) - Fast Boot (enable/disable) - Fast Boot (enable/disable) - Fast Boot (enable/disable) - Foors mode (guickBod, Clear Memory, FullBoot, or FullBoot Every x Days) - POST mode (guickBod, Clear Memory, FullBoot, or FullBoot Every x Days) - POST mode (guickBod, Clear Memory, FullBoot, or FullBoot		Master Boot Record Security - enables/disables MBR.
• • SVM CPU Virtualization Technology (VTx) (enable/disable) • Virtualization Technology (CTx) (enable/disable) • Trusted Execurity Device (enable/disable) • Trusted Execurity Device (enable/disable) • Reset to Factory Settings (Do not reset/Reset) • Measure boot variables/devices to PCR1 (enable/disable) • No PPI provisioning (Windows 8 only; enable/disable) • No PPI provisioning (Windows 8 only; enable/disable) • No PPI provisioning (Windows 8 only) • Legacy Support (enable/disable) • No PPI provisioning (Windows 8 only) • Legacy Support (enable/disable) • New PM policy to be changed by OS (enable/disable) • Key Management - Allows you to enable/disable Runtime Power Management, Idle Power Savings, Unique State Blink Rates. Hardware Power Management - Enable/disable SATA power management, S5 maximum power awings, PCI slos, network controller, USB 3.0 controller Thermal - Control minimum fan speed. Advanced Power-On Options - Allows you to set: • POST messages (enable/disable) • POST messages (enable/disable) •		System Security - Allows you to set: • Data Execution Prevention (enable/disable)
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Advanced Power-On Options - Allows you to set: • POST mode (QuickBoot, Clear Memor, FullBoot, or FullBoot Every x Days) • POST messages (enable/disable) • Post messages (enable/disable) • Post messages (enable/disable) • After Power Loss (off/on/previous state) • POST Delay (none, 5, 10, 15, 20, or 60 seconds) • Remote Wakeup Boot Source (remote server/local hard drive) • Factory Recovery Boot Support (enable/disable) • Bypass F1 Prompt on Configuration Changes (enable/disable) BIOS Power-On - Set the computer to turn on at a preset time. Bus Options - Allows you to set: • Printer mode (Bi-Directional, EPP + ECP, Output Only) • Num Lock State at Power-on (off/on) • Integrated Graphics (Auto/Disable/Force) • Integrated Graphics (Auto/Disable/Force) • Internal Speaker (enable/disable) • NUC PXE Option ROM Download (enable/disable) • NUC PXE Option ROM Download (enable/disable) • Multi-Processor (enable/disable) • Nuc PXE Option ROM Download (enable/disable) • Muti-Processor (enable/disable) • Tur		mum power savings., PCI slots, network controller, USB 3.0 controller
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WGA palette snooping. Onboard Devices - Allows you to set resources for or disable on-board system devices. Device Options - Allows you to set: • Printer mode (Bi-Directional, EPP + ECP, Output Only) • Num Lock State at Power-on (off/on) • Integrated Video (enable/disable) • Integrated Video (enable/disable) • NIC PXE Option ROM Download (enable/disable) • Multi-Processor (enable/disable) • Multi-Processor (enable/disable) • Turbo Mode (enable/disable) • Turbo Mode (enable/disable) • Multi-Processor (enable/disable) • Multi-Processor (enable/disable) • Turbo Mode (enable/disable) • Turbo Mode (enable/disable) • Multi-Processor (enable/disable) • Multi-Processor (enable/disable) • Multi-Processor (enable/disable) • Turbo Mode (enable/disable) • Urbo Mode (enable/disable) • VGA Configuration - Allows you to specify which VGA controller is the "boot"/primary. Displayed only if add-in video card installed. AMT (enable/disable) • Unconfigure AMT/ME (enable/disable) • Hide Unconfigure ME Confirmation Prompt (enable/disable) • Watchdog Timer (enable/disable)		BIOS Power-On - Set the computer to turn on at a preset time.
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 Integrated Graphics (Auto/Disable/Force) Internal Speaker (enable/disable) NIC PXE Option ROM Download (enable/disable) SATA RAID Option ROM Download (enable/disable) Multi-Processor (enable/disable) Hyper-threading (enable/disable) Turbo Mode (enable/disable) Turbo Mode (enable/disable) VGA Configuration - Allows you to specify which VGA controller is the "boot"/primary. Displayed only if add-in video card installed. AMT Configuration - Allows you to set: AMT Configuration - Allows you to set: AMT (enable/disable) Unconfigure AMT/ME (enable/disable) Hide Unconfigure ME Confirmation Prompt (enable/disable) Watchdog Timer (enable/disable) 		 Num Lock State at Power-on (off/on) Integrated Video (enable/disable)
 NIC PXE Option ROM Download (enable/disable) SATA RAID Option ROM Download (enable/disable) Multi-Processor (enable/disable) Hyper-threading (enable/disable) Turbo Mode (enable/disable) VGA Configuration - Allows you to specify which VGA controller is the "boot"/primary. Displayed only if add-in video card installed. AMT Configuration - Allows you to set: AMT Configuration - Allows you to set: AMT (enable/disable) Unconfigure AMT/ME (enable/disable) Hide Unconfigure ME Confirmation Prompt (enable/disable) Watchdog Timer (enable/disable) 		Integrated Graphics (Auto/Disable/Force) Internal Speaker (enable/disable)
 SATA KAD OPLION KUM DOWNload (enable/disable) Multi-Processor (enable/disable) Hyper-threading (enable/disable) Turbo Mode (enable/disable) VGA Configuration - Allows you to specify which VGA controller is the "boot"/primary. Displayed only if add-in video card installed. AMT Configuration - Allows you to set: AMT (enable/disable) Unconfigure AMT/ME (enable/disable) Hide Unconfigure ME Confirmation Prompt (enable/disable) Watchdog Timer (enable/disable) 		NIC PXE Option ROM Download (enable/disable) SATA RAID Option ROM Download (enable/disable)
 Hyper-threading (enable/disable) Turbo Mode (enable/disable) VGA Configuration - Allows you to specify which VGA controller is the "boot"/primary. Displayed only if add-in video card installed. AMT Configuration - Allows you to set: AMT (enable/disable) Unconfigure AMT/ME (enable/disable) Hide Unconfigure ME Confirmation Prompt (enable/disable) Watchdog Timer (enable/disable) 		 SATA KALD OPHON KOM Download (enable/disable) Multi-Processor (enable/disable)
 VGA Configuration - Allows you to specify which VGA controller is the "boot"/primary. Displayed only if add-in video card installed. AMT Configuration - Allows you to set: AMT (enable/disable) Unconfigure AMT/ME (enable/disable) Hide Unconfigure ME Confirmation Prompt (enable/disable) Watchdog Timer (enable/disable) 		Hyper-threading (enable/disable)Turbo Mode (enable/disable)
 AMT Configuration - Allows you to set: AMT (enable/disable) Unconfigure AMT/ME (enable/disable) Hide Unconfigure ME Confirmation Prompt (enable/disable) Watchdog Timer (enable/disable) 		VGA Configuration - Allows you to specify which VGA controller is the "boot"/primary. Displayed only if add-in video card installed.
 AM1 (enable/disable) Unconfigure AMT/ME (enable/disable) Hide Unconfigure ME Confirmation Prompt (enable/disable) Watchdog Timer (enable/disable) 		AMT Configuration - Allows you to set:
 Hide Unconfigure ME Confirmation Prompt (enable/disable) Watchdog Timer (enable/disable) 		 AM1 (enable/disable) Unconfigure AMT/ME (enable/disable)
		 Hide Unconfigure ME Confirmation Prompt (enable/disable) Watchdog Timer (enable/disable)