



Microsoft® WindowsDell™ n Series

Dell Inc 2010 ©

.Dell Inc

Microsoft Corporation *Windows Vistastart Windows Windows Vista* MicrosoftIntel Corporation *Core Pentium Intel* .Dell Inc *OptiPlex DELL Dell*

Dell Inc

A002010



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BIOS •



.1

:Windows® 7 •

Shut Down  Start

:Windows Vista •

Shut Down Start  Start



:Windows® XP •

Turn Off → Turn Off Computer → Start

6 .2

. .1



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.4

.Dell .5

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Help and Support → Start



small form factor desktop mini-tower



Intel® Core™ i7 Intel Core i5	
Intel Core i5 Intel Core i3 Intel Pentium®	
	(L2
8	Intel Core i7 Intel Core i5
4	Intel Core i5 Intel Core i3
3	Intel Pentium

ECCDDR3 SDRAM	
13331066	
421	
1	
16	

HDIntel	
.Intel i5Intel i7	

PCI ExpressPCI Express x16	
5121759	

Intel	

10/100/1000Intel 82578DM Gigabit Ethernet	

Intel Q57 Express	
	DMA
24	
1664	(NVRAM) BIOS

PCI 2.3 PCI Express 2.0 2.0SATA 1.0A eSATA USB 2.0	
133	PCI
500x1 2x4x16 x16 - 8	PCI Express
3.01.5	SATA
3.0	eSATA
480	USB

	PCI
	(x4PCI Express x16
	PCI Express x16

	PCI Express x1

	5.25
	3.5
	3.5
	2.5

7	eSATA
RJ45	
25	
165509	
	USB
	USB

15VGA 20DisplayPort	
	32PCI 2.3
120	
120	
120	
	PCI Expressx4PCI Express x16
164	
164	
	PCI Express16PCI Express x16
164	
164	
164	
	ATA
7	
7	
7	
240	
(USB10	USB
5	
26	I/O
14	
1156	
4	12
24	
14	
5	
36	PCI Express x1
2	
3	

	10 100 1000
	LEDLED

(EPA305	(EPA255	
(EPA255	(EPA255	
(EPA235	(EPA235	
(EPA1603	(EPA1000	
(EPA1341	(EPA1000	
(EPA1235	(EPA921	
	240-100	
	3CR2032	

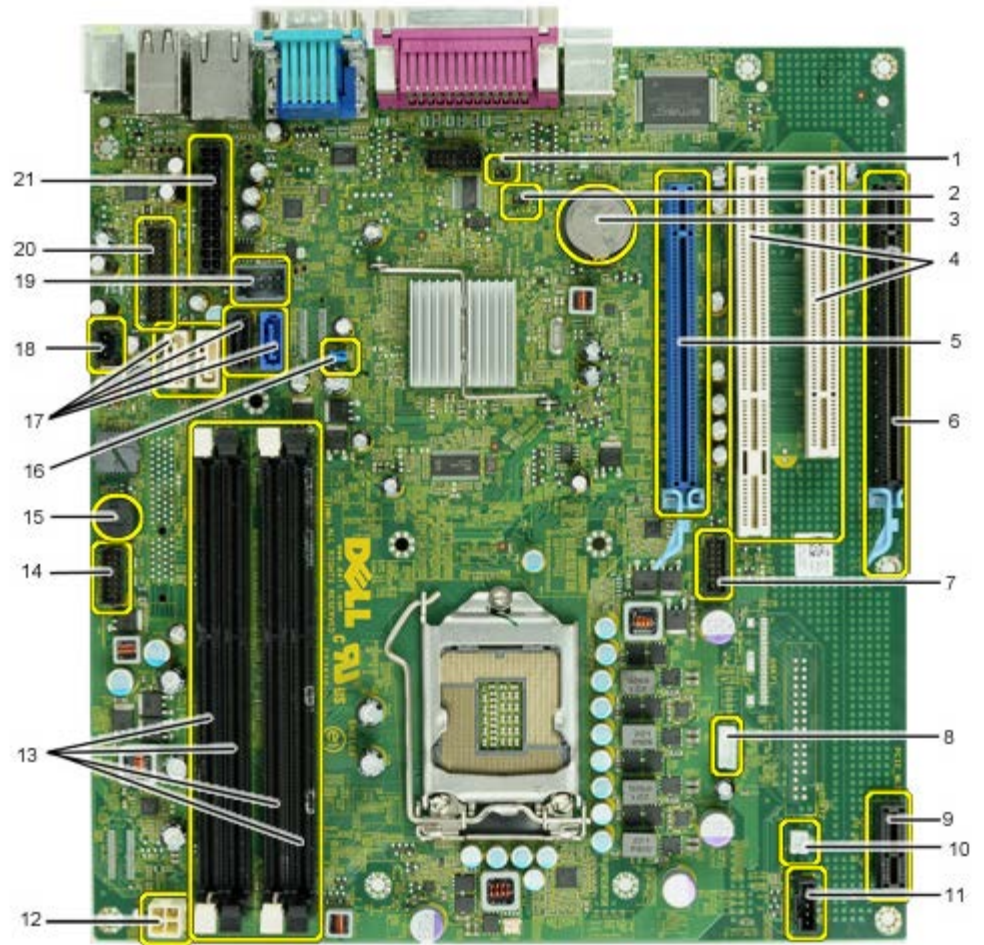
	16.0640.80
	15.6239.70
	11.4129.0
	7.3618.70
	4.2910.90
	3.348.50
	16.9643.10

13.7034.80	
12.7532.40	
25.1311.40	
18.298.30	
13.005.90	

95503510	
149406540	
%8020	
0.00023505	
0.010.0015005	
5120102540	
127501025105	
1050304815.2	
355010,66815.2	
ISA-S71.04-1985G2	

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(RTC_RST)	2	(Service_Mode)	1
(3 & 2 PCI)	4	(BATTERY)	3
(4x4) PCI Express x16	6	(1 PCI Express x16)	5
(INT_SPKR)	8	(Serial2)	7
(THRM3)	10	(PCIE_WLS1) PCI Express x1	9
12	12	(FAN_CPU)	11
(FRONT_PANEL)	14	(DIMM_1-4)	13
(PSWD)	16		15
(INTRUDER)	18	(SATA0-3) SATA	17
(FIOI/O)	20	(INT_USBUSB)	19
		(MICRO_PWR)	21

Boot Menu

DellCtrl><Alt><F8F12

SATA
USB

.(BIOS

System Setup

Enter>	
< >	
Esc>	.(BIOS
<Enter>	
<Esc>	
Load DefaultsAlt><F>	

BIOS

- <F12 •
- <F2 •

<F12

.(BIOS Enter Setup DiagnosticsDellF12

<F2>

General	
.DIMM_2 Size DIMM_1 Size .HT Capable 64-bit Technology Multi Core Capable L2 BIOS • PCI •	System Board
	Date/Time
(USBOnboard or USB Floppy • SATAOnboard SATA Hard Drive • (USBOnboard or USB CD-Rom Drive •	Boot Sequence

Drives	
USBUSBBIOS Disable • Enable • USBUSB Controller	Diskette drive
AHCI RAID = RAID Autodetect / AHCI • ATA RAID = RAID Autodetect / ATA • RAIDSATA RAID On / ATA • Legacy • Legacy .Image ServerRAIDImageServerRAID	(SATA SATA Operation)
SMART	(.S.M.A.R.T.S.M.A.R.T. Reporting)
ATASATA	Drives

System Configuration	
NIC Disable • Enable • (PXEEnable with PXE • (ImageSeverEnable with ImageSever • .ImageServerRAIDRAIDImageServe	NICIntegrated NIC

PXE	
USBUSB Enable • Disable • No boot • USBUSB	(USBUSB Controller)
Disable • AT • PS/2 • EPP • DMAECP • ECP DMA 1 • ECP DMA 3 •	Parallel Port
	Parallel Port Address
Disable • Auto • COM1 • COM3 •	(1Serial Port #1)
USB • PCI • • OptiPlex ON Reader • USB • WiFi NIC Slot •	Miscellaneous Devices

Video	
Auto • PCI Express Graphic (PEG Onboard/Card •	Primary Video

Performance	
	Multi Core Support
	Hyper-Threading Technology
Intel® Turbo Boost Technology Intel® Turbo Boost Technology	Intel® Turbo Boost Technology
CPU Intel® SpeedStep Intel® SpeedStep Intel SpeedStep	(™ Intel® SpeedStep Intel® SpeedStep
	(CC States Control

.3CPUIDCPUID	(CPUIDLimit CPUID Value
--------------	-------------------------

Virtualization Support	
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.Intel® VitalizationVMM (IntelEnable Intel® Vitalization Technology	Virtualization
Intel VitalizationVMM IntelEnable Intel® Vitalization Technology for Direct I/O	VT for Direct I/O
TPMIntel Trusted ExecutionMVMM (Intel® Trusted Execution TechnologyEnable Intel® Trusted Execution Technology	Trusted Execution

Security	
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	Administrative Password
	System Password
	Password Changes
	Admin Setup Lockout
<ul style="list-style-type: none"> • • • • 	Password Configuration
88	Strong Password
.(TPM TPM Deactivate • Activate • Clear • TPMTTPM ClearTPM	(TPMTTPM Security
	(CPU XD CPU XD Support
Computrace Deactivate •	(Computrace(R

- Disable •
- Activate •

Chassis Intrusion

- Clear Intrusion Warning •
- Disable •
- Enabled •
- On-Silent •

SATA-0

(SATA-0SATA-0 Password

SATA-1

(SATA-1SATA-1 Password

Power Management

AC RecoveryAC

AC Recovery

- Power Off •
- Power On •
- Last State •

Auto On Time

12

AM/PM

Auto Power On

Low Power Mode

NIC

Remote Wake up

- Disable •
- Enable •
- Enable with Boot NIC •

Suspend Mode

- S1 •
- S3 •

Fan Control Override

Maintenance

	Service Tag
	Asset Tag
.SERR	(SERRSERR Messages)
.SERR	

Image Server	
ImageServer Static IP • DNS • Lookup MethodImageServerEnableIntegrated NIC	Lookup Method
ImageServerIP 255.255.255.255 IP .Static IPLookup MethodEnabled with ImageServerSystem ConfigurationIntegrated NIC	(ImageServerImageServer IP)
ImageServerIP 06910 IP .Enabled with ImageServerSystem ConfigurationIntegrated NIC	(ImageServerImageServer Port)
.(IP Static IP • DHCP • .Enabled with ImageServerSystem ConfigurationIntegrated NIC	DHCPClient DHCP
IP 255.255.255.255 IP Static IP Client DHCP Client IP	IPClient IP
255.255.255.255 Static IP Client DHCP Client SubnetMask	SubnetMaskClient SubnetMask
IP 255.255.255.255 Static IPClient DHCPClient SubnetMask	Client Gateway
	License Status

Post Behavior	
	Fast Boot
NumLock	(NumlockLEDNumLock LED)
	(POSTPOST Hotkeys)

F2Enable F2 = Setup •
F12Enable F12 = Boot menu •

Keyboard Errors

.Manageability Engine BIOS Extensions (MEBx) Setup

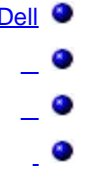
(MEBxMEBx Hotkey

System Logs

((BIOSBIOS Events

Clear Log •
Mark all Entries •

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DellDell

Drivers and Utilities

System Setup_

Drivers and UtilitiesDell Diagnostics

Dell

.1

F12DELL .2

. Drivers and Utilities Dell

Microsoft® Windows

.<EnterBoot to Utility Partition .3

Dell Main Menu .4

Drivers and UtilitiesDell

Drivers and Utilities .1

.2

F12DELL

WindowsWindows



.<EnterUSBOnboard or USB CD-ROM Drive .3

.<EnterBoot from CD-ROM .4

Enter1 .5

32DellRun the 32 Bit Dell Diagnostics .6

DellMain Menu .7

DellMain Menu

Main MenuDell .1

Express Test	Express Test
	Extended Test
	Custom Test
	Symptom Tree




.2



Symptom Tree Custom Test .3

	Results
	Errors
	Help
Dell	Configuration
	Parameters

Drivers and UtilitiesDell .4

Main MenuDellMain Menu .5






	
POWER_GOOD VRM	
POWER_GOOD	





	S3S1	
	S0 BIOS	

POSTPOST

	2-1-1
NVRAM	3-1-1
ROM BIOS	4-1-1
	1-2-1
DMA	2-2-1
DMA	3-2-1
DIMM	2-4-41-3-1
DMA	1-1-3
DMA	2-1-3
	3-1-3
	4-1-3
	2-2-3
	4-2-3
NVRAM	1-3-3
NVRAM	2-3-3
	4-3-3
	1-4-3
	2-4-3
ROM	3-4-3
	1-2-4
	2-2-4
Gate A20	3-2-4
	4-2-4
0FFFFh	1-3-4
2	3-3-4
	4-3-4
	1-4-4
	2-4-4

	3-4-4
	4-4-4
	2-1-1
NVRAM	3-1-1
ROM BIOS	4-1-1
	1-2-1
DMA	2-2-1
DMA	3-2-1
	3-1
	2-4-41-3-1
DMA	1-1-3
DMA	2-1-3
	3-1-3
	4-1-3
	2-2-3
	4-2-3
NVRAM	1-3-3
NVRAM	2-3-3
	4-3-3
	1-4-3
	2-4-3
ROM	3-4-3
	1-2-4
	2-2-4
Gate A20	3-2-4
	4-2-4
0FFFFh	1-3-4
2	3-3-4
	4-3-4
	1-4-4
	2-4-4
	3-4-4
	4-4-4


			LED
•			① ② ③ ④
•			① ② ③ ④
LED • LED • PSU LED • LED •			① ② ③ ④
DIMM •			① ② ③ ④
CPU •	CPU		① ② ③ ④
BIOS •	BIOS		① ② ③ ④
PCI-E •			① ② ③ ④
2x2 •			① ② ③ ④
PCI-E •			① ② ③ ④
•			① ② ③ ④
•			① ② ③ ④
•			① ② ③ ④
•			① ② ③ ④
•			① ② ③ ④
•			① ② ③ ④
•			① ② ③ ④
•			① ② ③ ④
USB •	.USB		① ② ③ ④
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			1 2 3 4
	⋮		1 2 3 4
	⋮		1 2 3 4
	⋮		1 2 3 4

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Adobe.com Adobe Flash Player 

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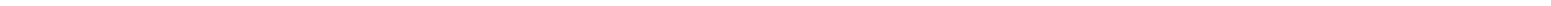


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