ThinkCentre M82 Small and Tower

ThinkCentre_®



Lenovo ThinkCentre M82 Small and Tower



Lenovo ThinkCentre M82 Tower with Lenovo ThinkVision Monitor





Lenovo ThinkCentre M82 Small



Lenovo ThinkCentre M82 Small with Lenovo ThinkVision Monitor







Lenovo ThinkCentre M82 Tower

Lenovo ThinkCentre M82 Tower

Slot Type-model bay		Memory ⁸	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display- Port dongle		Floor stand	ENERGY STAR 5.2		Win7 preload	Ann date (mm/dd/yy)
2032-A2G 4v3	8 G850	2GBv1 1600MHz	500G 7200	DVD+RW	None	Intel HD	None	Switch	Stand	FS52	None	Pro 64	06/05/12

Positioning Processor anterprise stability and manageability and manageability and manageability may be processor in Lord 19 part of 19 part o			
Intel HD Graphics in processor, uses main memory, HDCP, DirectX* 10.1, one VGA, not DisplayPort*, supports dual independent display Maximum resolution: 2560x1600 (DisplayPort, VGA) @ 60Hz DP dongle DP dongle SATA 6.05b/s 7200 rpm None SATA 6.05b/s 7200 rpm SATA controller Chipset Intel D7 Septem Schipset Two SATA cables (each 1-top to device), one SATA 6.05b/s connector, None SATA 6.0	Processor	Intel® Pentium® G850 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology	Genuine Windows® 7 Professional 64
Intel HD Graphics in processor, uses main memory, HDCP DirectX* 10.1, one VCA, one DisplayPort; supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort, VGA) @60Hz None SATA 6.00Ex 200 rpm Super Multi-Burner DL DVD_RW SATA 1.5Gb/s Drive SATA 6.00Ex 200 rpm Super Multi-Burner DL DVD_RW SATA 1.5Gb/s Drive SATA 6.00Ex 200 rpm Super Multi-Burner DL DVD_RW SATA 1.5Gb/s Drive SATA 6.00Ex 200 rpm SATA 6.			
one VGA, one DisplayPort**, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort, VGA) &60Hz None Disk SATA of Coflus 7200 rpm SATA controller SATA controller SATA controller SATA controller SATA controller Chobard SATA None SATA controller SATA controller SATA cand SATA condition Media reader None Media read			
Disk SATA 6.0Gb/s 7200 rpm SATA controller Optical SATA controller None Chipset Intel Q75 Express Chipset Internal connector Vivo USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) and the controller of the c		one VGA, one DisplayPort™, supports dual independent display;	Preloaded applications (only some listed)
Disk Optical Optical Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive SATA controller Onboard SATA controller Onboard SATA OGB/s and SATA 6.0Gb/s, integrated in chipset Two SATA acables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector None Media reader None None None None None None None None	DP dongle		
eSATA port Media reader None Chipset Intel Q75 Express Chipset Front ports Rear ports Rear audio ports Internal connector Rear audio ports Internal connector Audio Speaker IEEE 1394 IEEE 1394 IEEE 1394 Internal speaker for business audio None Chipset Internal connector Audio Speaker IEEE 1394 IEEE 1394 Internal speaker for business audio None Trus USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports) None Rear audio ports Internal speaker for business audio None Speaker IEEE 1394 IEEE 1394 Internal speaker for business audio None Trus USB New Speaker IEEE 1394 Intel Standard Manageability None Trusted Platform Module (TPM 1.2-compliant) Reyboard Mouse Floor Stand Power supply Abchine ■ Business black color; metal case ■ 13.3 "W X 15.2" D X 39." ■ Business black color; metal case ■ 13.3 "W X 15.2" D X 39." ■ Business black color; metal case ■ 13.3 "W X 15.2" D X 39." ■ Speaker referred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo System floor stand for vertical orientation 240 watts, autosensing, 85% F39U Bay 1.5.5 1,6" high, access, std optical Bay 2.3.5", 1" high, no access, std disk Bay 3.3.5", 5" high, access, opt reader Slot 1: Low Profile, 92-Express 2.0 x16 (45w max) Slot 1: Low Profile, 32-bit PCI 2.3 Slot 1: Low Profile, 32-bit PCI 2.3 Slot 1: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 3: Low Profile, 32-bit PCI 2.3	Optical SATA controller	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector,	ThinkVantage Communication Utility ThinkVantage Power Manager View Management Utility Lenovo AppShop Lenovo Solution Center
Intel 075 Express Chipset Intel 075 Express Chipset		·	
Chipset Intel 075 Express Chipset Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort Four USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector Audio Audio Audio High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio None Internal speaker for business audio None Cone gigabit ethernet port, Intel 82579, Wake on LAN® Intel Standard Manageability None Trusted Platform Module (TPM 1.2-compliant) None Security chip None Trusted Platform Module (TPM 1.2-compliant) Keyboard Mouse Floor Stand Power supply ■ Business black color; metal case ■ 1.3 ** W x 15.2* D x 30* H ■ 3.38mm W x 385mm D x 100mm H ■ 1.5 ib (7.5 kg) in maximum configuration ■ Toolless cover flips up and tilts backward on rear hinges ■ Toolless disk and optical drive removal ■ Toolless cover flips up and tilts backward on rear hinges ■ Toolless disk and optical drive removal ■ Toolless cover flips up and tilts backward on rear hinges ■ Toolless disk and optical drive removal ■ Toolless cover flips up and tilts backward on rear hinges ■ Toolless disk and optical drive removal ■ Toolless cover flips up and tilts backward on rear hinges ■ Toolless disk and optical drive removal ■ Toolless cover flips up and tilts backward on rear hinges ■ Toolless disk and optical drive removal ■ Toolless cover flips up and tilts backward on rear hinges ■ Toolless disk and optical drive removal ■ Toolless cover flips up and tilts backward on rear hinges ■ Toolless over flips up and tilts backward on rear hinges ■ Toolless over flips up and tilts backward on rear hinges ■ Toolless over flips up and tilts backward on rear hinges ■ Toolless over flips up and tilts backward on rear hinges ■ Toolless over flips up and tilts backward on rear hinges ■ Toolless over flips up and tilts backward on rear hinges ■			
Rear ports Rear audio port Line-in (stere), 3.5mm), line-out (stere),	Chipset	· · · · · · · · · · · · · · · · · · ·	(30 days of virus definitions)
EIEE 1394 EIEEE 1394 IEEE 1394 IEEE 1394 IEEE 1394 IEEE 1394 INOne One gigabit ethernet port, Intel 82579, Wake on LAN® Manageability Modem None Security chip Trusted Platform Module (TPM 1.2-compliant) Keyboard Mouse Fishor Stand Power supply Achieve 1920 Machine ■ Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Enhanced Optical USB Mouse, black, Lenovo logo System floor stand for vertical orientation 240 watts, autosensing, 85% PSU Machine ■ Business black color; metal case 13.3" W X 15.2" TX 3.9" H 16.16.5 b (7.5 kg) in maximum configuration 17 oriolless disk and optical drive removal 10 Toolless disk and optical drive removal 10 Security soft (in rear for attachment of optional keeningtons in removal removal removal removal removal removal removal removal	Rear ports Rear audio ports Internal connector	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector	Skype™ for Windows Windows Live™ Essentials Microsoft® Office preloaded; purchase a product key to activate Corel® Burn.Now™ (DVD±RW)
Ethernet Manageability Manageability Modem Security chip Fristed Platform Module (TPM 1.2-compliant) Trusted Platform Module (TPM 1.2-compliant) Trusted Platform Module (TPM 1.2-compliant) Fristed P	Speaker	Internal speaker for business audio	Corel DVD MovieFactory® (DVD±RW)
None Security chip Trusted Platform Module (TPM 1.2-compliant)		One gigabit ethernet port, Intel 82579, Wake on LAN®	
Security chip Trusted Platform Module (TPM 1.2-compliant)			
Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Enhanced Optical USB Mouse, black, Lenovo logo System floor stand for vertical orientation 240 watts, autosensing, 85% PSU			
Mouse Enhanced Optical USB Mouse, black, Lenovo logo Floor Stand System floor stand for vertical orientation Power supply 240 watts, autosensing, 85% PSU Machine ■ Business black color; metal case • 13.3* W X 15.2* D X 3.9* H • 338mm W X 385mm D X 100mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless disk and optical drive removal • Toolless dadpter retention Bay 1: 5.25°, 1.6* high, access, std optical Bay 2: 3.5°, 1* high, no access, std optical Bay 2: 3.5°, 1* high, no access, std disk Bay 3: 3.5°, 5* high, access, opt reader Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3 Indianal optical Indianal optical optical Indianal optical Indianal optical Indianal optical Indianal optical Indianal optical Indianal optical optical Indianal optical optical Indianal optical Indianal optical optical Indianal optical optical Indianal optical optical Indianal optical optical Indianal optic			-
Power supply 240 watts, autosensing, 85% PSU Machine Business black color; metal case 13.3" W X 15.2" D X 3.9" H 338mm W X 385mm D X 100mm H 16.5 lb (7.5 kg) in maximum configuration Toolless cover flips up and tilts backward on rear hinges Toolless adapter retention Bay Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std odisk Bay 3: 3.5", 5" high, access, opt reader Slot 1: Low Profile, PCle 2.0 x1 Slot 3: Low Profile, PCle 2.0 x1 Slot 4: Low Profile, 32-bit PCl 2.3 Slot 4: Low Profile, 32-bit PCl 2.3 Slot 4: Low Profile, 32-bit PCl 2.3 Slot 4: Low Profile, 32-bit PCl 2.3 Boot without keyboard and mouse Individual USB port disablement Chassis intrusion switch on selected model(s) EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold GREENGUARD® certified RoHS-compliant			
## Business black color; metal case 13.3" W X 15.2" D X 3.9" H 338mm W X 385mm D X 100mm H 16.5 lb (7.5 kg) in maximum configuration Toolless cover flips up and tilts backward on rear hinges Toolless disk and optical drive removal Toolless adapter retention Bay Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", 5" high, access, opt reader Slot 1: Low Profile, PCle Express 2.0 x16 (45w max) Slot 2: Low Profile, PCle 2.0 x1 Slot 3: Low Profile, 32-bit PCl 2.3 Slot 4: Low Profile, 32-bit PCl 2.3 ### Optical ### Op		•	
• 13.3" W X 15.2" D X 3.9" H • 338mm W X 385mm D X 100mm H • 16.5 lb (7.5 kg) in maximum configuration • Toolless cover flips up and tilts backward on rear hinges • Toolless dapter retention Bay Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std optical Bay 3: 3.5", 5" high, access, opt reader Slot Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCI Express 2.0 x16 (45w max) Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3 Slot 5: Low Profile, 32-bit PCI 2.3 Slot 6: Low Profile, 32-bit PCI 2.3 Slot 7: Low Profile, 32-bit PCI 2.3 Slot 6: Low Profile, 32-bit PCI 2.3 Slot 6: Low Profile, 32-bit PCI 2.3 Slot 7: Low Profile, 32-bit PCI 2.3 Slot 8: Low Profile, 32-bit PCI 2.3 Slot 9: Security chip (see information on left) Security Securit			_
Bay 1: 5.25°, 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", 5" high, no access, opt reader Slot Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCI e 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3 Idisk optical Optical	Machine	 13.3" W X 15.2" D X 3.9" H 338mm W X 385mm D X 100mm H 16.5 lb (7.5 kg) in maximum configuration Toolless cover flips up and tilts backward on rear hinges Toolless disk and optical drive removal Toolless adapter retention 	
Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3 disk	Bay	Bay 2: 3.5", 1" high, no access, std disk	Securitý slot (in rear for attachment of optional Kensington® MicroSaver®
	Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3	Cablé lock Power-on password Administrator password Hard disk password Boot sequence control
ENERGY STAR® 5.2-compliant ULE Gold GREENGUARD® certified RoHS-compliant			Individual USB port disablement Chassis intrusion switch on selected model(s) EPEAT™ Gold rating
Limited Warranty 1-year, customer carry-in service / service upgrades available Supports ThinkVantage Technologies			ENERGY STAR® 5.2-compliant ULE Gold GREENGUARD® certified
	Limited Warranty	1-year, customer carry-in service / service upgrades available	Supports ThinkVantage Technologies

Slot x Type-model bay Processor		Memory ⁸	SATA disk GB rpm	SATA optical	Media reader		Display- Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2		Win7 preload	Ann date (mm/dd/yy)
2756-A1G 4x3	i3-2130	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2000	None	Switch	Stand	ES52	None	Pro 32	06/05/12
2756-B7G 4x3	G850	2GBx1 1600MHz	500G 7200	DVD±RW	None	Intel HD	None	Switch	Stand	ES52	None	Pro 64	06/05/12
2756-H9G 4x3	i3-2120	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2000	None	Switch	None	ES52	None	Pro 64	06/26/12

Positioning Processor	Mainstream enterprise stability and manageability Intel® Pentium® G850 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i3-2130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology	Preloaded operating system Some: Genuine Windows® 7 Professional 32 Some: Genuine Windows 7 Professional 64 Ready to install applications (only some listed) ● Rescue and Recovery™ ● Password Manager Preloaded applications (only some listed)
Implementation	Processor in LGA1155 socket	ThinkVantage® Product Recovery
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets	ThinkVantage System Update ThinkVantage Communication Utility
Graphics	Intel HD Graphics or Intel HD Graphics 2000 in processor, uses main memory, HDCP, DirectX [®] 10.1, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort, VGA) @ 60Hz	ThinkVantage Communication Utility ThinkVantage Power Manager View Management Utility Lenovo AppShop
DP dongle	None	Lenovo Solution Center
Disk Optical SATA controller Onboard SATA	SATA 6.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector	Lenovo Message Center Plus Lenovo Simple Tap Norton™ Internet Security (30 days of virus definitions) Adobe® Reader®
eSATA port	None	Skype™ for Windows Windows Live™ Essentials
Media reader	None	Microsoft® Office preloaded;
Chipset	Intel Q75 Express Chipset	purchase a product key to activate Corel® Burn.Now™ (DVD±RW)
Front ports Rear ports Rear audio ports Internal connector	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector	Corel DVD MovieFactory® (DVD±RW)
Audio Speaker IEEE 1394	High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio None	
Ethernet Manageability Modem	One gigabit ethernet port, Intel 82579, Wake on LAN® Intel Standard Manageability None	
Security chip	Trusted Platform Module (TPM 1.2-compliant)	
Keyboard Mouse	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Enhanced Optical USB Mouse, black, Lenovo logo	
Floor Stand	Some: System floor stand for vertical orientation	
Power supply	240 watts, autosensing, 85% PSU	Security Security chip (see information on left)
Machine	 Business black color; metal case 13.3" W X 15.2" D X 3.9" H 338mm W X 385mm D X 100mm H 16.5 lb (7.5 kg) in maximum configuration Toolless cover flips up and tilts backward on rear hinges Toolless disk and optical drive removal Toolless adapter retention 	Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) Cable lock Power-on password Administrator password Hard disk password
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader	Boot sequence control Boot without keyboard and mouse Individual USB port disablement
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3	Chassis intrusion switch on selected model(s) EPEAT™ Gold rating ENERGY STAR 5.2-compliant ULE Gold
Limited Warranty	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available	GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies
		,,,

Slot x Type-model bay Prod	cessor	Memory ⁸	SATA disk GB rpm	SATA optical	Media reader		Display- Port dongle		Floor stand	ENERGY STAR 5.2		Win7 preload	Ann date (mm/dd/yy)
2756-N2G 4v3 i3-	3220	4GBv1 1600MHz	500G 7200	DVD+RW	None	HD 2500	None	Switch	Stand	FS52	None	Pro 64	09/11/12

Positioning Processor	Mainstream enterprise stability and manageability Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller	Preloaded operating system Genuine Windows® 7 Professional 64
Implementation	Processor in LGA1155 socket	Ready to install applications (only some
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets	- listed)
Graphics DP dongle Disk Optical SATA controller Onboard SATA eSATA port Media reader Chipset Front ports Rear ports Rear audio ports	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets Intel HD Graphics 2500 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort, VGA)@60Hz None SATA 6.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector None None Intel Q75 Express Chipset Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio None One gigabit ethernet port, Intel 82579, Wake on LAN® Intel Standard Manageability None Trusted Platform Module (TPM 1.2-compliant) Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Enhanced Optical USB Mouse, black, Lenovo logo System floor stand for vertical orientation 240 watts, autosensing, 85% PSU ■ Business black color; metal case ■ 13.3" W X 15.2" D X 3.9" H ■ 338mm W X 385mm D X 100mm H ■ 16.5 lb (7.5 kg) in maximum configuration	Rescue and Recovery™ Password Manager Preloaded applications (only some listed) ThinkVantage® Product Recovery ThinkVantage System Update ThinkVantage Communication Utility ThinkVantage Power Manager View Management Utility Lenovo AppShop Lenovo Solution Center Lenovo Message Center Plus Lenovo SimpleTap Norton™ Internet Security (30 days of virus definitions) Adobe® Reader® Skype™ for Windows Windows Live™ Essentials Microsoft® Office preloaded; purchase a product key to activate Corel® Burn.Now™ (DVD±RW) Corel DVD MovieFactory® (DVD±RW)
Bay	 Toolless cover flips up and tilts backward on rear hinges Toolless disk and optical drive removal Toolless adapter retention Bay 1: 5.25". 1.6" high, access, std optical 	Security • Security chip (see information on left)
Slot	Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3	Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) Cable lock Power-on password Administrator password Hard disk password
Limited Warranty	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and	Boot sequence control Boot without keyboard and mouse Individual USB port disablement Chassis intrusion switch on selected model(s) EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold GREENGUARD® certified
Limited Warrarily	national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available	RoHS-compliant Supports ThinkVantage Technologies

	Slot x bay	Processor	Memory ⁸	SATA disk GB rpm	SATA optical	Media reader	Graphics	Display- Port dongle	Chassis intr switch	Floor stand	ENERGY STAR 5.2	Global	Preload	Ann date (mm/dd/yy)
	<u> </u>			•	•		•							
2756-K1G	4x3	i3-3220	4GBx1	500G 7200	DVD±RW	None	HD 2500	None	Switch	None	ES52	None	Win8 Pro64	10/23/12
2756-N1G	4x3	i3-3220	4GBx1	500G 7200	DVD±RW	None	HD 2500	None	Switch	None	ES52	None	Win7 Pro64	10/23/12
2756-DCG	4x3	i5-3470	4GBx1	500G 7200	DVD±RW	None	HD 2500	None	Switch	Stand	ES52	None	Win7 Pro64	03/05/13
2756-HAG	4x3	i3-3240	4GBx1	500G 7200	DVD±RW	None	HD 2500	None	Switch	None	ES52	None	Win7 Pro64	05/28/13
2756-HBG	4x3	i3-3240	4GBx1	500G 7200	DVD±RW	Media	HD 2500	None	Switch	None	ES52	None	Win7 Pro64	05/28/13
2756-HCG	4x3	i5-3470	4GBx1	500G 7200	DVD±RW	Media	HD 2500	None	Switch	Stand	ES52	None	Win7 Pro64	05/28/13

Positioning Processor	Mainstream enterprise stability and manageability Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),	Preloaded operating system
Flocessoi	integrated Intel HD Graphics 2500,	Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 8 Pro 64-bit
	integrated 1600MHz dual-channel DDR3 memory controller Intel Core i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500,	Preloaded applications (only some listed) - Windows 7 models ThinkVantage® Product Recovery
Implementation	integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket	ThinkVantage Product Recovery ThinkVantage Communication Utility ThinkVantage Power Manager
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets	Lenovo® AppShop
Graphics DP dongle	Intel HD Graphics 2500 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort, VGA)@60Hz None	 Lenovo Message Center Plus Lenovo Simple Tap Adobe® Reader® Windows Live™ Essentials
Disk	SATA 6.0Gb/s 7200 rpm	Corel® Burn.Now™ (DVD±RW) (DVD±RW)
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	Corel DVD MovieFactory® (DVD±RW) Windows 9 models
SATA controller Onboard SATA	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector	Windows 8 models Lenovo Support Lenovo Companion Lenovo Cloud Storage
eSATA port Media reader	None Some: 29-in-1 media reader, internal USB 2.0	Lenovo Cloud Storage Norton™ Studio
Chipset	Intel Q75 Express Chipset	AccuWeather Evernote®
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	Cyberlink Power2Go (DVD±RW)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort	Cyberlink PowerProducer (DVD±RW)
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)	- All models
	Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector	ThinkVantage System Update Lenovo Solution Center
Audio	High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio	View Management Utility Norton Internet Security
Speaker IEEE 1394	None	(30 days of virus definitions)
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®	Microsoft® Office preloaded; purely and a product key to activate.
Manageability	Intel Standard Manageability	purchase a product key to activate ■ Skype [™]
Modem Security chip	None Trusted Platform Module (TPM 1.2-compliant)	
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Floor Stand	Some: System floor stand for vertical orientation	
Power supply	240 watts, autosensing, 85% PSU	
Machine	 Business black color; metal case 13.3" W X 15.2" D X 3.9" H 338mm W X 385mm D X 100mm H 16.5 lb (7.5 kg) in maximum configuration Toolless cover flips up and tilts backward on rear hinges Toolless disk and optical drive removal 	Security Security (see information on left) Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
5	Toolless adapter retention	Cable lock Power-on password
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk	Administrator password Hard disk password
Slot	Bay 3: 3.5", .5" high, access, opt reader Slot 1: Low Profile, PCI Express 2.0 x16 (45w max)	Boot sequence control
O.O.	Slot 2: Low Profile, PCle 2.0 x1 Slot 3: Low Profile, 32-bit PCl 2.3 Slot 4: Low Profile, 32-bit PCl 2.3	Boot without keyboard and mouse Individual USB port disablement Chassis intrusion switch on selected model(s)
		EPEAT™ Gold rating ENERGY STAR® 5.2-compliant
		ULE Gold
Limited Warranty	3-years , limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day	GREENGUARD® certified RoHS-compliant
	for service dispatch / service upgrades available	Supports ThinkVantage Technologies

Slot x Type-model bay F	Processor	Memory ⁸	SATA disk GB rpm	SATA optical	Media reader		Display Port dongle	Chassis	Floor stand	ENERGY STAR 5.2	Global (0 GMP (P	G) Win7) preload	Ann date (mm/dd/yy)
2929-A1G 4x3	i5-3550	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	GΡ	Pro 64	06/05/12
2929-B1G 4x3	i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	GΡ	Pro 64	06/19/12
2929-D1G 4x3	i5-3570	4GBx1 1600MHz	500G 7200	DVD±RW	None	HD 2500	None	None	Stand	ES52	GΡ	Pro 64	08/14/12

[•] Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	Mainstream enterprise stability and manageability	Preloaded operating system
Processor	Mainstream enterprise stability and manageability Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3550 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500,	Genuine Windows® 7 Professional 64 Ready to install applications (only some listed) ■ Rescue and Recovery™ ■ Password Manager
	integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology	Preloaded applications (only some listed)
Implementation	Processor in LGA1155 socket	ThinkVantage® Product Recovery ThinkVantage System Update
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets	ThinkVantage System Opdate ThinkVantage Communication Utility
Graphics	Intel HD Graphics 2500 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort, VGA)@60Hz	ThinkVantage Power ManagerView Management UtilityLenovo AppShop
DP dongle	None	Lenovo Solution Center
Disk Optical SATA controller Onboard SATA	SATA 6.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector,	Lenovo Message Center Plus Lenovo Simple Tap Norton™ Internet Security (30 days of virus definitions) Adobe® Reader®
eSATA port	two SATA 3.0Gb/s connectors, and one eSATA connector None	 Skype[™] for Windows
Media reader	None	 Windows Live™ Essentials Microsoft® Office preloaded;
Chipset	Intel Q75 Express Chipset	purchase a product key to activate • Corel® Burn.Now™ (DVD±RW)
Audio Speaker IEEE 1394 Ethernet Manageability Modem Security chip Keyboard Mouse Floor Stand	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Four USB 3.0, two USB2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio None One gigabit ethernet port, Intel 82579, Wake on LAN® Intel Standard Manageability None Trusted Platform Module (TPM 1.2-compliant) Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo System floor stand for vertical orientation 240 watts, autosensing, 85% PSU	Corel DVD MovieFactory® (DVD±RW)
Power supply Machine	Business black color; metal case 13.3" W X 15.2" D X 3.9" H 338mm W X 385mm D X 100mm H 16.5 lb (7.5 kg) in maximum configuration Toolless cover flips up and tilts backward on rear hinges Toolless disk and optical drive removal Toolless adapter retention	Security Security (see information on left) Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) Cable lock Power-on password
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader	Administrator password Hard disk password Boot sequence control
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCI e 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3	Boot without keyboard and mouse Individual USB port disablement Chassis intrusion switch on selected model(s) EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold
Limited Warranty	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available	GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies

Slot x Type-model bay Processo	or Memory ⁸	SATA disk GB rpm	SATA optical	Media reader Graphics	Display Port dongle	Chassis	Floor stand	ENERGY STAR 5.2	Global (0 GMP (P	G)) Preload	Ann date (mm/dd/yy)
2929-C1G 4x3 i5-3470								ES52		Win8 Pro64	
2929-E1G 4x3 i5-3470	4GBx1 1600MHz	500G 7200	DVD±RW	None HD 2500	None	None	Stand	ES52	GΡ	Win7 Pro64	10/23/12

• Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

-		1
Positioning Processor	Mainstream enterprise stability and manageability Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology	Preloaded operating system Some: Windows® 7 Professional 64 preinstalled through downgrade
Implementation	Processor in LGA1155 socket	rights in Windows 8 Pro 64-bit Some: Windows 8 Pro 64-bit
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets	Preloaded applications (only some listed)
Graphics DP dongle Disk	Intel HD Graphics 2500 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort, VGA) @ 60Hz None SATA 6 0Gb/c 7200 rpm	Windows 7 models ThinkVantage® Product Recovery ThinkVantage Communication Utility ThinkVantage Power Manager
Optical	SATA 6.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	Lenovo® AppShop Lenovo® AppShop Lenovo® AppShop
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset	Lenovo Message Center Plus Lenovo SimpleTap
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector	Adobe® Reader® Windows Live™ Essentials
eSATA port	None	 Corel® Burn.Now™ (DVD±RW) Corel DVD MovieFactory® (DVD±RW)
Media reader	None	- Windows 8 models
Chipset	Intel Q75 Express Chipset	
	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector	Lenovo Support Lenovo Companion Lenovo Cloud Storage Norton™ Studio AccuWeather Evernote®
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	Cyberlink Power2Go (DVD±RW)
Speaker IEEE 1394	Internal speaker for business audio None	Cyberlink PowerProducer (DVD±RW)
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®	- All models
Manageability	Intel Standard Manageability	ThinkVantage System Update
Modem	None	Lenovo Solution Center View Management Utility
Security chip	Trusted Platform Module (TPM 1.2-compliant)	Norton Internet Security
Keyboard Mouse Floor Stand Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Enhanced Optical USB Mouse, black, Lenovo logo System floor stand for vertical orientation 240 watts, autosensing, 85% PSU	(30 days of virus definitions) • Microsoft® Office preloaded; purchase a product key to activate • Skype™
Machine	 Business black color; metal case 13.3" W X 15.2" D X 3.9" H 338mm W X 385mm D X 100mm H 16.5 lb (7.5 kg) in maximum configuration Toolless cover flips up and tilts backward on rear hinges Toolless disk and optical drive removal Toolless adapter retention Bay 1: 5.25", 1.6" high, access, std optical 	
Бау	Bay 2: 3.5", 1" high, access, std disk Bay 3: 3.5", 1" high, access, opt reader	Security
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (45w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3	Security chip (see information on left) Security slot (in rear for attachment of optional Kensington® MicroSaver® cable) Cable lock Power-on password Administrator password
	disk optical	Hard disk password Boot sequence control Boot without keyboard and mouse Individual USB port disablement Chassis intrusion switch on selected model(s)
		EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold
Limited Warranty	3-years , limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day	GREENGUARD® certified RoHS-compliant
	for service dispatch / service upgrades available	Supports ThinkVantage Technologies

Slot x Type-model bay Processor Memo		r Memory ⁸	SATA disk 2nd Disk GB rpm Bay		SATA Media optical reader		Graphics	Display- Chassis Port intrusion ENERGY Graphics dongle switch STAR 5.2 Glob				Win7 Ann date al preload <i>(mm/dd/yy)</i>		
2750-A2G 4x5 2750-A3G 4x5		2GBx1 1600MHz 2GBx1 1600MHz		,									06/05/12 06/05/12	

Positioning Processor	Mainstream enterprise stability and manageability Intel® Pentium® G850 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache),	Preloaded operating system Genuine Windows® 7
	integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology	Professional 64
	Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),	Ready to install applications (only some listed)
	integrated Intel HD Graphics 2000,	■ Rescue and Recovery [™]
Implementation	integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket	Password Manager
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets	Preloaded applications (only some listed)
Graphics	Intel HD Graphics or Intel HD Graphics 2000 in processor, uses main memory, HDCP,	ThinkVantage® Product Recovery ThinkVantage System Update
	DirectX [®] 10.1, one VGA, one DisplayPort™, supports dual independent display;	 ThinkVantage Communication Utility
DP dongle	Maximum resolution: 2560x1600 (DisplayPort, VGA) @ 60Hz None	ThinkVantage Power Manager View Management Utility
Disk	SATA 6.0Gb/s 7200 rpm	Lenovo AppShop Lenovo Solution Center
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	Lenovo Message Center Plus
SATA controller Onboard SATA	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector,	 Lenovo Simple Tap Norton™ Internet Security
	two SATA 3.0Gb/s connectors, and one eSATA connector	(30 days of virus definitions)
eSATA port Media reader	None None	Adobe® Reader® Skype™ for Windows
Chipset	Intel Q75 Express Chipset	 Windows Live™ Essentials
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	Microsoft® Office preloaded; purchase a product key to activate
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort	Corel® Burn.Now™ (DVD±RW)
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports),	Corel DVD MovieFactory® (DVD±RW)
internal connector	one internal DisplayPort connector	
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker IEEE 1394	Internal speaker for business audio None	
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®	
Manageability	Intel Standard Manageability	
Modem	None Trusted Platform Module (TPM 1.2 compliant)	
Security chip Keyboard	Trusted Platform Module (TPM 1.2-compliant) Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Power supply	280 watts, autosensing, 85% PSU	
Machine	 Business black color; metal case 6.9" W X 17.4" D X 16.3" H 	
	• 175mm W X 442mm D X 414mm H	Security
	 24.2 lb (11.0 kg) in maximum configuration Toolless cover removal, toolless adapter retention 	Security chip (see information on left) One lock to secure both cover and
	Toolless cover removal, toolless adapter retention Toolless disk, optical drive removal	entire system to fixed object:
Bay	Bay 1: 5.25", 1.6" high, access, std optical	-Padlock loop (in rear for opt padlock) -Security slot (in rear for optional
	Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader	Kensington® MicroSaver® cable)
	Bay 4: 3.5", 1" high, no access, std disk	Cable lock Power-on password
Slot	Bay 5: 3.5", 1" high, no access, opt disk Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max)	Hard disk password
Ciot	Slot 2: half-length, full-height, PCle 2.0 x1	Boot sequence control Boot without keyboard and mouse
	Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3	Serial port I/O control
	Side in that foriging of birt of 2.0	Individual USB port disablement Chassis intrusion switch on selected
		model(s)
		EPEAT™ Gold rating
		ENERGY STAR® 5.2-compliant ULE Gold
		GREENGUARD® certified
Limited Warranty	1-year, customer carry-in service / service upgrades available	RoHS-compliant Supports ThinkVantage Technologies
	- ,,	Cupports Thirtx variage Technologies

Slot x Type-model bay Processor		Memory ⁸	SATA disk 2 GB rpm	nd Disk Bay	SATA optical	Media Display- Chassis Port intrusion ENERGY reader Graphics dongle switch STAR 5.2 Global						Win7 Ann date preload (mm/dd/yy)		
2697-A1G 4x5	i3-2130	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2000	None	Switch	ES52	None	Pro 64	06/05/12	
2697-B5G 4x5	G850	2GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	Intel HD	None	Switch	ES52	None	Pro 64	06/05/12	
2697-G6G 4x5	i3-2120	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2000	None	Switch	ES52	None	Pro 64	06/26/12	

Positioning Processor	Mainstream enterprise stability and manageability Intel® Pentium® G850 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),	Preloaded operating system Genuine Windows® 7 Professional 64 Professional formula applications (only some
Implementation	integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i3-2130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket	 Rescue and Recovery™ Password Manager Preloaded applications (only some listed) ThinkVantage® Product Recovery ThinkVantage System Update ThinkVantage Communication Utility
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets	 ThinkVantage Power Manager
Graphics DP dongle	Intel HD Graphics or Intel HD Graphics 2000 in processor, uses main memory, HDCP, DirectX [®] 10.1, one VGA, one DisplayPort™, supports dual independent display; <i>Maximum resolution:</i> 2560x1600 (DisplayPort, VGA) @ 60Hz None	 View Management Utility Lenovo AppShop Lenovo Solution Center Lenovo Messale Center Plus
Disk Optical SATA controller Onboard SATA	SATA 6.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector	 Lenovo SimpleTap Norton™ Internet Security (30 days of virus definitions) Adobe® Reader® Skype™ for Windows Windows Live™ Essentials
eSATA port Media reader	None None	 Microsoft® Office preloaded; purchase a product key to activate Corel® Burn.Now™ (DVD±RW)
Chipset	Intel Q75 Express Chipset	 Corel DVD MovieFactory® (DVD±RW)
Front ports Rear ports Rear audio ports Internal connector Audio	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker IEEE 1394 Ethernet Manageability Modem Security chip	Internal speaker for business audio None One gigabit ethernet port, Intel 82579, Wake on LAN® Intel Standard Manageability None Trusted Platform Module (TPM 1.2-compliant)	
Keyboard Mouse Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Enhanced Optical USB Mouse, black, Lenovo logo 280 watts, autosensing, 85% PSU	Security • Security chip (see information on left)
Machine	Business black color; metal case 6.9" W X 17.4" D X 16.3" H 175mm W X 442mm D X 414mm H 24.2 lb (11.0 kg) in maximum configuration Toolless cover removal, toolless adapter retention Toolless disk, optical drive removal optical	One lock to secure both cover and entire system to fixed object: -Padlock loop (in rear for opt padlock) -Security slot (in rear for optional Kensington® MicroSaver® cable) Cable lock
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk	Power-on password Hard disk password Boot sequence control Boot without keyboard and mouse Serial port I/O control
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3	Individual USB port disablement Chassis intrusion switch on selected model(s) EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold
Limited Warranty	3-years , limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available	GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies

Slot x Type-model bay Processor Memory®		SATA disk 2nd Disk GB rpm Bay		SATA Media optical reader Graphics		Display- Chassis Port intrusion ENERGY dongle switch STAR 5.2 Global			Win7 Ann date preload (mm/dd/yy)				
		4GBx1 1600MHz 4GBx1 1600MHz											07/10/12 09/11/12

Positioning Processor	Mainstream enterprise stability and manageability Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller Intel Core i5-3550 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology	Preloaded operating system Genuine Windows® 7 Professional 64 Ready to install applications (only some listed) ■ Rescue and Recovery™
Implementation	Processor in LGA1155 socket	Password Manager
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets	Preloaded applications (only some listed)
Graphics	Intel HD Graphics 2500 in processor, uses main memory, DirectX [®] 11, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort, VGA) @ 60Hz	 ThinkVantage® Product Recovery ThinkVantage System Update ThinkVantage Communication Utility
DP dongle	None	ThinkVantage Power Manager
Disk Optical SATA controller Onboard SATA eSATA port	SATA 6.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector None	View Management Utility Lenovo AppShop Lenovo Solution Center Lenovo Message Center Plus Lenovo SimpleTap Norton™ Internet Security (20 days of virus definitions)
Media reader	None	(30 days of virus definitions) • Adobe® Reader®
Chipset	Intel Q75 Express Chipset	 Skype™ for Windows
Front ports Rear ports Rear audio ports Internal connector Audio	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector High Definition (HD) Audio, Realtek® ALC662 codec	 Windows Live™ Essentials Microsoft® Office preloaded; purchase a product key to activate Corel® Burn.Now™ (DVD±RW) Corel DVD MovieFactory® (DVD±RW)
Speaker	Internal speaker for business audio	
IEEE 1394 Ethernet Manageability Modem	None One gigabit ethernet port, Intel 82579, Wake on LAN® Intel Standard Manageability None	
Keyboard Mouse Power supply	Trusted Platform Module (TPM 1.2-compliant) Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Enhanced Optical USB Mouse, black, Lenovo logo 280 watts, autosensing, 85% PSU	
Machine	Business black color; metal case 6.9" W X 17.4" D X 16.3" H 175mm W X 442mm D X 414mm H 24.2 lb (11.0 kg) in maximum configuration Toolless cover removal, toolless adapter retention Toolless disk, optical drive removal	Security Security (see information on left) One lock to secure both cover and
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk optical	entire system to fixed object: -Padlock loop (in rear for opt padlock) -Security slot (in rear for optional Kensington® MicroSaver® cable) • Cable lock • Power-op password
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3 (3) (disk) (1) (5)	Power-on password Hard disk password Boot sequence control Boot without keyboard and mouse Serial port I/O control Individual USB port disablement Chassis intrusion switch on selected model(s) EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold
Limited Warranty	3-years , limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available	GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies

ThinkCentre M82 Tower (2697) - ES 5.2 (Win 8)

Type-model	Slot x bay	Processor	Memory ⁸	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Display- Port dongle	Chassis intrusion switch	ENERGY STAR 5.2	Global	Preload	Ann date (mm/dd/yy)
2697-J1G	4x5	i3-3220	4GBx1	500G 7200	Bay	DVD±RW	None	HD 2500	None	Switch	ES52	None	Win8 Pro64	10/23/12
2697-L1G	4x5	i3-3220	4GBx1	500G 7200	Bay	DVD±RW	None	HD 2500	None	Switch	ES52	None	Win7 Pro64	10/23/12
2697-AAG	4x5	i5-3470	4GBx1	500G 7200	Bay	DVD±RW	None	HD 2500	None	Switch	ES52	None	Win7 Pro64	03/05/13
2697-BAG	4x5	i3-3240	4GBx1	500G 7200	Bay	DVD±RW	None	HD 2500	None	Switch	ES52	None	Win7 Pro64	05/28/13
2697-BBG	4x5	i3-3240	4GBx1	500G 7200	Bay	DVD±RW	Media	HD 2500	None	Switch	ES52	None	Win7 Pro64	05/28/13
2697-BCG	4x5	i5-3470	4GBx1	500G 7200	Bay	DVD±RW	Media	HD 2500	None	Switch	ES52	None	Win7 Pro64	05/28/13

Positioning	Mainstream enterprise stability and manageability	Preloaded operating system
Processor	Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller Intel Core i3-3240 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller Intel Core i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology	Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Some: Windows 8 Pro 64-bit Preloaded applications (only some listed) - Windows 7 models • ThinkVantage® Product Recovery • ThinkVantage Communication Utility
Implementation	Processor in LGA1155 socket	ThinkVantage Communication Stilly ThinkVantage Power Manager
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets	Lenovo® AppShop
Graphics	Intel HD Graphics 2500 in processor, uses main memory, DirectX [®] 11, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort, VGA) @ 60Hz	Lenovo Message Center Plus Lenovo SimpleTap Adobe® Reader® Mindere Lind Faccations
DP dongle	None	 Windows Live™ Essentials Corel® Burn.Now™ (DVD±RW)
Disk Optical SATA controller Onboard SATA	SATA 6.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector	Corel DVD MovieFactory® (DVD±RW) Windows 8 models Lenovo Support Lenovo Companion Lenovo Cloud Storage
eSATA port Media reader	None Some: 29-in-1 media reader, internal USB 2.0	Norton™ Studio
Chipset	Intel Q75 Express Chipset	AccuWeather Evernote®
Audio Speaker IEEE 1394 Ethernet Manageability	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports), one internal DisplayPort connector High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio None One gigabit ethernet port, Intel 82579, Wake on LAN® Intel Standard Manageability	Cyberlink Power2Go (DVD±RW) Cyberlink PowerProducer (DVD±RW) All models ThinkVantage System Update Lenovo Solution Center View Management Utility Norton Internet Security (30 days of virus definitions) Microsoft⁵ Office preloaded; purchase a product key to activate Skype™
Modem Security chip	None Trusted Platform Module (TPM 1.2-compliant)	
Keyboard Mouse Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Enhanced Optical USB Mouse, black, Lenovo logo 280 watts, autosensing, 85% PSU	
Machine	Business black color; metal case 6.9" W X 17.4" D X 16.3" H 175mm W X 442mm D X 414mm H 24.2 lb (11.0 kg) in maximum configuration Toolless cover removal, toolless adapter retention Toolless disk, optical drive removal	Security Security chip (see information on left) One lock to secure both cover and entire system to fixed object: -Padlock loop (in rear for opt padlock) -Security slot (in rear for optional)
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk	Kensington® MicroSaver® cable) Cable lock Power-on password Hard disk password Boot sequence control Boot without keyboard and mouse
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3	Serial port I/O control Individual USB port disablement Chassis intrusion switch on selected model(s) EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold
Limited Warranty	3-years , limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available	GREENGUARD® certified RoHS-compliant Supports ThinkVantage Technologies

Slo Type-model ba		Memory ⁸	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Port	Chassis intrusion switch	ENERGY	Global (G) GMP (P)	Win7 preload	Ann date (mm/dd/yy)
2742-A1G 4x	5 i5-3550	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	GΡ	Pro 64	06/05/12
2742-B1G 4x	5 i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	GΡ	Pro 64	06/19/12
2742-D1G 4x	5 i5-3570	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	GΡ	Pro 64	08/14/12

• Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning Processor	Mainstream enterprise stability and manageability Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3550 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel Core i5-3570 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology	Preloaded operating system Genuine Windows® 7 Professional 64 Ready to install applications (only some listed) ■ Rescue and Recovery™ ■ Password Manager Preloaded applications (only some listed)
Implementation	Processor in LGA1155 socket	 ThinkVantage® Product Recovery ThinkVantage System Update
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets	Think variage System Opdate Think Vantage Communication Utility
Graphics DP dongle	Intel HD Graphics 2500 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort, VGA)@60Hz None	ThinkVantage Power ManagerView Management UtilityLenovo AppShop
		Lenovo Solution Center Lenovo Message Center Plus
Disk Optical SATA controller Onboard SATA	SATA 6.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector, two SATA 3.0Gb/s connectors, and one eSATA connector	 Lenovo Message Certer Plus Lenovo SimpleTap Norton™ Internet Security (30 days of virus definitions) Adobe® Reader® Skype™ for Windows
eSATA port	None	 Windows Live™ Essentials
Media reader	None	Microsoft® Office preloaded; purchase a product key to activate
	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) Four USB 3.0, two USB2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports),	Corel® Burn.Now™ (DVD±RW) Corel DVD MovieFactory® (DVD±RW)
Audio Speaker IEEE 1394 Ethernet Manageability	one internal DisplayPort connector High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio None One gigabit ethernet port, Intel 82579, Wake on LAN® Intel Standard Manageability	
Modem	None	
Security chip	Trusted Platform Module (TPM 1.2-compliant)	
Keyboard Mouse Power supply	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo [®] logo Enhanced Optical USB Mouse, black, Lenovo logo 280 watts, autosensing, 85% PSU	Security
Machine	Business black color; metal case 6.9" W X 17.4" D X 16.3" H 175mm W X 442mm D X 414mm H 24.2 lb (11.0 kg) in maximum configuration Toolless cover removal, toolless adapter retention Toolless disk, optical drive removal	Security chip (see information on left) One lock to secure both cover and entire system to fixed object: -Padlock loop (in rear for opt padlock) -Security slot (in rear for optional Kensington® MicroSaver® cable)
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 5.25", 1.6" high, access, open Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk	Cable lock Power-on password Hard disk password Boot sequence control Boot without keyboard and mouse
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1 Slot 3: half-length, full-height, 32-bit PCI 2.3 Slot 4: half-length, full-height, 32-bit PCI 2.3	Serial port I/O control Individual USB port disablement Chassis intrusion switch on selected model(s) EPEAT™ Gold rating
	<u> </u>	ENERGY STAR® 5.2-compliant
Limited Warranty	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day	ULE Gold GREENGUARD® certified RoHS-compliant
	for service dispatch / service upgrades available	Supports ThinkVantage Technologies

Slot x Type-model bay	Processor	Memory ⁸	SATA disk 2 GB rpm			Media reader	Graphics	Port	- Chassis intrusior switch	ENERGY STAR 5.2	Global (G) GMP (P)	Preload	Ann date (mm/dd/yy)
		4GBx1 1600MHz		,						ES52		Win8 Pro64	
2742-E1G 4x5	i5-3470	4GBx1 1600MHz	500G 7200	Bay	DVD±RW	None	HD 2500	None	None	ES52	GΡ	Win7 Pro64	10/23/12

• Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning	Mainstream enterprise stability and manageability	Preloaded operating system
Processor	Intel® Core™ i5-3470 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 2500,	Some: Windows® 7 Professional 64
	integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology	preinstalled through downgrade rights in Windows 8 Pro 64-bit
Implementation	Processor in LGA1155 socket	Some: Windows 8 Pro 64-bit
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets	Preloaded applications (only some listed)
Graphics	Intel HD Graphics 2500 in processor, uses main memory, DirectX [®] 11, one VGA, one DisplayPort™, supports dual independent display;	- Windows 7 models
	Maximum resolution: 2560x1600 (DisplayPort, VGA)@60Hz	ThinkVantage® Product Recovery ThinkVantage Communication Utility
DP dongle	None	ThinkVantage Power Manager
Disk Optical	SATA 6.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	Lenovo® AppShop Lenovo® AppShop
SATA controller	Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset	Lenovo Message Center Plus Lenovo SimpleTap
Onboard SATA	Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector,	Adobe® Reader®
eSATA port	two SATA 3.0Gb/s connectors, and one eSATA connector None	 Windows Live[™] Essentials Corel[®] Burn.Now[™] (DVD±RW)
Media reader	None	Corel DVD MovieFactory® (DVD±RW)
Chipset	Intel Q75 Express Chipset	- Windows 8 models
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	Lenovo Support
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort	Lenovo CompanionLenovo Cloud Storage
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for media reader or 2 rear USB ports),	Norton™ Studio
internal connector	one internal DisplayPort connector	AccuWeather Evernote®
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	 Cyberlink Power2Go (DVD±RW)
Speaker IEEE 1394	Internal speaker for business audio None	Cyberlink PowerProducer (DVD±RW)
Ethernet	One gigabit ethernet port, Intel 82579, Wake on LAN®	- All models
Manageability	Intel Standard Manageability	ThinkVantage System Update Lenovo Solution Center
Modem	None Trusted Blotform Module (TDM 1.0 compliant)	 View Management Utility
Security chip	Trusted Platform Module (TPM 1.2-compliant) Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	Norton Internet Security (30 days of virus definitions)
Keyboard Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	Microsoft® Office preloaded;
Power supply	280 watts, autosensing, 85% PSU	purchase a product key to activate
Machine	Business black color; metal case	 Skype[™]
	● 6.9" W X 17.4" D X 16.3" H ● 175mm W X 442mm D X 414mm H	
	24.2 lb (11.0 kg) in maximum configuration	
	 Toolless cover removal, toolless adapter retention Toolless disk, optical drive removal 	
Bay	Bay 1: 5.25", 1.6" high, access, std optical	
,	Bay 2: 5.25", 1.6" high, access, open	
	Bay 3: 3.5", 1" high, access, opt reader Bay 4: 3.5", 1" high, no access, std disk	
	Bay 5: 3.5", 1" high, no access, opt disk	Security Security chip (see information on left)
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (75w max) Slot 2: half-length, full-height, PCIe 2.0 x1	One lock to secure both cover and
	Slot 3: half-length, full-height, 32-bit PCI 2.3	entire system to fixed object: -Padlock loop (in rear for opt padlock)
	Slot 4: half-length, full-height, 32-bit PCI 2.3	-Security slot (in rear for optional
	optical	Kensington® MicroSaver® cable)
	2	Cable lock Power-on password
		Hard disk password
	③ disk	Boot sequence control Boot without keyboard and mouse
	□ • • □	Serial port I/O control
		Individual USB port disablement Chassis intrusion switch on selected
	5	model(s)
		EPEAT™ Gold rating
		ENERGY STAR® 5.2-compliant ULE Gold
Limited Warranty	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and	GREENGUARD® certified
Eminod Warranty	national holidays. Calls received after 3 pm will require an additional next business day	RoHS-compliant
	for service dispatch / service upgrades available	Supports ThinkVantage Technologies