Ty	/pe-model	Slot x bay	Processor	Memory	SATA disk / ⁸ GB rpm	SATA optical	Media reader	Graphics	Chassis Intrusion switch	PS/2 port	Floor stand	ENERGY STAR 5.2		Win7 preload	Ann date (mm/dd/yy)
5	100-A1U	4x3	A8-5500B	4GBx1	1TB 7200	DVD±RW	None	Radeon HD 7560D	None	None	Stand	None	None	Pro 64	08/28/12
5	100-A2U	4x3	A6-5400B	4GBx1	500G 7200	DVD±RW	None	Radeon HD 7540D	None	None	Stand	None	None	Pro 64	08/28/12
5	100-A3U	4x3	A4-5300	4GBx1	250G 7200	DVD±RW	None	Radeon HD 7480D	None	None	Stand	None	None	Pro 64	08/28/12
5	100-A4U	4x3	A4-5300	2GBx1	250G 7200	DVD±RW	None	Radeon HD 7480D	None	None	Stand	None	None	Pro 64	08/28/12

- Small and medium business (SMB) model(s), part of the US TopSeller Program 3-year limited warranty

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Positioning Processor	Mainstream enterprise stability and manageability AMD Accelerated Processor A4-5300 (dual-core, 3.4GHz, 1MB L2 cache),	Preloaded operating system
FIOCESSOI	Turbo Core technology (up to 3.6GHz), integrated AMD Radeon™ HD 7480D Graphics, integrated DDR3 memory controller (up to 1600MHz)	Genuine Windows® 7 Professional 64
	AMD Accelerated Processor A6-5400B (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core technology (up to 3.8GHz), integrated AMD Radeon HD 7540D Graphics,	Ready to install applications (only some listed)
	integrated DDR3 memory controller (up to 1866MHz) AMD Accelerated Processor A8-5500B (quad-core, 3.2GHz, 4MB L2 cache),	 Rescue and Recovery™ Password Manager
	Turbo Core technology (up to 3.7GHz), integrated AMD Radeon HD 7560D Graphics, integrated DDR3 memory controller (up to 1866MHz)	Business-in-a-Box Preloaded applications (only some listed)
Implementation	Processor in Socket FM2	ThinkVantage® Product Recovery
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets	ThinkVantage Product Recovery ThinkVantage System Update
Graphics	AMD Radeon HD Graphics, integrated in processor, uses main memory, DirectX [®] 11, one VGA, one DisplayPort™, supports dual independent display; works along with discrete graphics to support up to four independent monitors; <i>Maximum resolution:</i> 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz	ThinkVantage Communication Utility ThinkVantage Power Manager View Management Utility Lenovo Solution Center
DP dongle	None	Lenovo Message Center Plus
Disk	SATA 6.0Gb/s 7200 rpm	Lenovo SimpleTap
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	Norton™ Internet Security (30 days of virus definitions)
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1	Adobe® Reader®
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar	Google Chrome
eSATA port Media reader	None None	 Google Toolbar Skype™ for Windows
		Skype or for windows Evernote®
Chipset Front ports	AMD A75 Chipset True LISP 2.0 microphone (stores 2.5mm) headabane (stores 2.5mm)	RapidBoot HDD Accelerator
Rear ports	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, optional keyboard (PS/2), optional mouse (PS/2)	 Symantec™ VIP Windows Live™ Essentials Microsoft® Office preloaded;
Rear audio ports Internal connector Audio	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for additional USB device) High Definition (HD) Audio, Realtek® ALC662 codec	purchase a product key to activate • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW)
Speaker	Internal speaker for business audio	
IĖEE 1394	None	
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®	
Modem	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	System floor stand for vertical orientation	
Power supply	240 watts, autosensing, active Power Factor Correction	
Machine	Business black color; metal case	
	• 13.3" W X 15.0" D X 3.9" H	
	339mm W X 381mm D X 100mm H 16.5 lb (7.5 kg) in maximum configuration	Security
	 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 chip (see information on left)Security slot (in rear for attachment of
Bay	Toolless adapter retention Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk	optional Kensington® MicroSaver® cable) • Cable lock
	Bay 3: 3.5", .5" high, access, opt reader	Power-on password
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1	Administrator password Hard disk password Boot sequence control
	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)
		RoHS-compliant
		Supports ThinkVantage Technologies
		For compatible accessories,
Limited Warranty	3-years , limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	please go to O-M78 sheet; For ThinkPlus™ service upgrade options, please go to S-TC sheet

	Slot x bay	Processor	Memory	SATA disk ⁸ GB rpm	SATA optical	Media reader	Graphics	Chassis Intrusion switch	PS/2 port		ENERGY STAR 5.2	Global	Preload	Ann date (mm/dd/yy)
5100-B1U	4x3	A6-5400B	4GBx1	500G 7200	DVD±RW	None	Radeon HD 7540D	None	None	Stand	None	None	Win8 Pro6	4 10/23/12
5100-B2U	4x3	A4-5300	2GBx1	250G 7200	DVD±RW	None	Radeon HD 7480D	None	None	Stand	None	None	Win8 Pro6	4 10/23/12
5100-C1U	4x3	A4-5300	2GBx1	250G 7200	DVD±RW	None	Radeon HD 7480D	None	None	Stand	None	None	Win7 Pro6	4 10/30/12
5100-C2U	4x3	A6-5400B	4GBx1	500G 7200	DVD±RW	None	Radeon HD 7540D	None	None	Stand	None	None	Win7 Pro6	4 10/30/12

- Small and medium business (SMB) model(s), part of the US TopSeller Program 3-year limited warranty

Positioning	Mainstream enterprise stability and manageability	Preloaded operating system
Processor	AMD Accelerated Processor A4-5300 (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core technology (up to 3.6GHz), integrated AMD Radeon™ HD 7480D Graphics, integrated DDR3 memory controller (up to 1600MHz) AMD Accelerated Processor A6-5400B (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core technology (up to 3.8GHz), integrated AMD Radeon HD 7540D Graphics, integrated DDR3 memory controller (up to 1866MHz)	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
Implementation	Processor in Socket FM2	
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets	ThinkVantage® Product Recovery ThinkVantage Communication Utility
Graphics	AMD Radeon HD Graphics, integrated in processor, uses main memory, DirectX [®] 11, one VGA, one DisplayPort™, supports dual independent display; works along with discrete graphics to support up to four independent monitors; <i>Maximum resolution:</i> 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz	ThinkVantage Power Manager Lenovo® Message Center Plus Lenovo SimpleTap Adobe® Reader®
DP dongle	None	Google Chrome
Disk Optical SATA controller Onboard SATA eSATA port Media reader	SATA 6.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar None None	 Google Toolbar RapidBoot HDD Accelerator Symantec™ VIP Windows Live™ Essentials Corel® Burn.Now™ (DVD±RW) Corel DVD MovieFactory® (DVD±RW)
Chipset	AMD A75 Chipset	- Windows 8 models
Front ports Rear ports	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, optional keyboard (PS/2), optional mouse (PS/2)	 Lenovo Support Lenovo Companion Lenovo Cloud Storage Lenovo QuickLaunch
Rear audio ports Internal connector Audio Speaker	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for additional USB device) High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio	Norton™ Studio Intel AppUp® AccuWeather PC Device Stage
IEEE 1394	None	Cyberlink Power2Go (DVD±RW) Cyberlink PowerProducer (DVD±RW)
Ethernet Modem Security chip	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN® None Trusted Platform Module (TPM 1.2-compliant)	- All models - ThinkVantage® System Update
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, active Power Factor Correction	View Management Utility Lenovo Solution Center Norton Internet Security (30 days of virus definitions)
Machine Machine	Business black color; metal case 13.3" W X 15.0" D X 3.9" H 339mm W X 381mm 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	 Microsoft® Office preloaded; purchase a product key to activate Evernote® Skype™
Bay	Toolless adapter retention Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk	Security Security chip (see information on left) Security slot (in rear for attachment of optional Kensington® MicroSaver®
Slot	Bay 3: 3.5", .5" high, access, opt reader Slot 1: Low Profile, PCI Express 2.0 x16 (40w 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	cable) Cable lock Power-on password Administrator password Hard disk password
	disk optical	Boot sequence control Boot without keyboard and mouse Individual USB port disablement Chassis intrusion switch on selected model(s)
		RoHS-compliant
		Supports ThinkVantage Technologies
Limited Warranty	3-years , limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	For compatible accessories, - please go to O-M78 sheet; For ThinkPlus™ service upgrade options, please go to S-TC sheet

Type-mode	Slot x l bay	Processor	Memory	SATA disk r ⁸ GB rpm	SATA optical	Media reader	Graphics	Chassis Intrusion switch	PS/2 port	Floor stand	ENERGY STAR 5.2		Win7 preload	Ann date (mm/dd/yy)
4865-A7L	J 4x3	A6-5400B	4GBx1	500G 7200	DVD±RW	None	Radeon HD 7540D	None	None	Stand	None	None	Pro 32	08/28/12
4865-C1L	J 4x3	A8-5500B	4GBx1	1TB 7200	DVD±RW	None	Radeon HD 7560D	None	None	Stand	None	None	Pro 64	08/28/12
4865-C2L	J 4x3	A6-5400B	4GBx1	500G 7200	DVD±RW	None	Radeon HD 7540D	None	None	Stand	None	None	Pro 64	08/28/12
4865-C3L	J 4x3	A4-5300	4GBx1	250G 7200	DVD±RW	None	Radeon HD 7480D	None	None	Stand	None	None	Pro 64	08/28/12

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Positioning Processor	Mainstream enterprise stability and manageability AMD Accelerated Processor A4-5300 (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core technology (up to 3.6GHz), integrated AMD Radeon™ HD 7480D Graphics,	Preloaded operating system Some: Genuine Windows® 7
	integrated DDR3 memory controller (up to 1600MHz) AMD Accelerated Processor A6-5400B (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core technology (up to 3.8GHz), integrated AMD Radeon HD 7540D Graphics,	Professional 32 Some: Genuine Windows 7 Professional 64
	integrated DDR3 memory controller (up to 1866MHz) AMD Accelerated Processor A8-5500B (quad-core, 3.2GHz, 4MB L2 cache).	Ready to install applications (only some listed)
los alama antatia a	Turbo Core technology (up to 3.7GHz), integrated AMD Radeon HD 7560D Graphics, integrated DDR3 memory controller (up to 1866MHz)	 Rescue and Recovery™ Password Manager
Implementation	Processor in Socket FM2	Business-in-a-Box
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets	Preloaded applications (only some listed)
Graphics	AMD Radeon HD Graphics, integrated in processor, uses main memory, DirectX [®] 11, one VGA, one DisplayPort™, supports dual independent display; works along with discrete graphics to support up to four independent monitors; <i>Maximum resolution:</i> 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz	ThinkVantage® Product Recovery ThinkVantage System Update ThinkVantage Communication Utility ThinkVantage Review Manager ThinkVantage Review Manager ThinkVantage Review Manager ThinkVantage Review Manager ThinkVantage
DP dongle	None	ThinkVantage Power Manager View Management Utility
Disk	SATA 6.0Gb/s 7200 rpm	Lenovo Solution Center
Optical	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	Lenovo Message Center PlusLenovo SimpleTap
SATA controller	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1	Norton™ Internet Security
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar	(30 days of virus definitions)
eSATA port Media reader	None None	Adobe® Reader® Google Chrome
Chipset	AMD A75 Chipset	Google Toolbar
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	Skype™ for Windows Evernote®
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)	RapidBoot HDD Accelerator Symantec™ VIP
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)	Windows Live™ Essentials
	Two USB 2.0 planar conn (1 used; one open for additional USB device)	Microsoft® Office preloaded; purchase a product key to activate
Audio	High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio	Corel® Burn.Now™ (DVD±RW)
Speaker IEEE 1394	None	 Corel DVD MovieFactory® (DVD±RW)
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®	
Modem	None	
Security chip	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	System floor stand for vertical orientation	
Power supply	240 watts, autosensing, active Power Factor Correction	
Machine	 Business black color; metal case 13.3" W X 15.0" D X 3.9" H 	
	• 339mm W X 381mm D X 100mm H	
	• 16.5 lb (7.5 kg) in maximum configuration	Security
	 Toolless cover flips up and tilts backward on rear hinges Toolless disk and optical drive removal 	Security chip (see information on left) Security slot (in rear for attachment of
	Toolless adapter retention	optional Kensington® MicroSaver®
Bay	Bay 1: 5.25", 1.6" high, access, std optical	cable)
•	Bay 2: 3.5", 1" high, no access, std disk	Cable lock Power-on password
Slot	Bay 3: 3.5", .5" high, access, opt reader Slot 1: Low Profile, PCI Express 2.0 x16 (40w max)	Administrator password
SIUL	Slot 2: Low Profile, PCI express 2.0 x to (40w max)	Hard disk password
	Slot 3: Low Profile, 32-bit PCI 2.3	Boot sequence control Boot without keyboard and mayor
	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)
		RoHS-compliant
		Supports ThinkVantage Technologies
		For compatible accessories,
Limited Warranty	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays,	please go to O-M78 sheet; For ThinkPlus™ service upgrade options,
,	next business day response time / service upgrades available	please go to S-TC sheet

Type-model	Slot x bay	Processor	Memory	SATA disk GB rpm	SATA optical	Media reader	Graphics	Chassis Intrusion switch	PS/2		ENERGY STAR 5.2		Preload	Ann date (mm/dd/yy)
4865-E1U	4x3	A4-5300	2GBx1	250G 7200	DVD±RW	None	Radeon HD 7480D	None	None	Stand	None	None	Win8 Pro64	10/23/12

Limited Warranty	3-years , limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	please go to O-M78 sheet; For ThinkPlus™ service upgrade options, please go to S-TC sheet
		For compatible accessories,
		RoHS-compliant Supports ThinkVantage Technologies
	disk optical	Hard disk password Boot sequence control Boot without keyboard and mouse Individual USB port disablement Chassis intrusion switch on selected model(s)
		Power-on password Administrator password
	Slot 3: Low Profile, 32-bit PCI 2.3 Slot 4: Low Profile, 32-bit PCI 2.3	optional Kensington® MicroSaver® cable) • Cable lock
Slot	Bay 3: 3.5", .5" high, access, opt reader Slot 1: Low Profile, PCI Express 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1	Security Security chip (see information on left) Security slot (in rear for attachment of
Bay	 Toolless disk and optical drive removal Toolless adapter retention Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk 	Sacurity
	 13.3" W X 15.0" D X 3.9" H 339mm W X 381mm D X 100mm H 16.5 lb (7.5 kg) in maximum configuration Toolless cover flips up and tilts backward on rear hinges 	
Machine Machine	Business black color; metal case	
Floor Stand Power supply	System floor stand for vertical orientation 240 watts, autosensing, active Power Factor Correction	
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Security chip Keyboard	Trusted Platform Module (TPM 1.2-compliant) Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	
Modem	None	
IEEE 1394 Ethernet	None One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®	
Audio Speaker	High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio	
	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for additional USB device)	
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)	Cyberlink PowerProducer (DVD±RW)
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	- ● Skype™ - ● Cyberlink Power2Go (DVD±RW)
Chipset	AMD A75 Chipset	PC Device Stage Evernote®
eSATA port Media reader	None None	AccuWeather
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar	Norton Studio Intel AppUp®
Optical SATA controller	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1	Norton™ Internet Security (30 days of virus definitions)
Disk	SATA 6.0Gb/s 7200 rpm	purchase a product key to activate
DP dongle	one VGA, one DisplayPort™, supports dual independent display; works along with discrete graphics to support up to four independent monitors; <i>Maximum resolution:</i> 1920x1200 (VGA) @ 60Hz; 2560x2048 (DisplayPort) @ 60Hz None	Lenovo Cloud Storage Lenovo QuickLaunch Lenovo Solution Center Microsoft® Office preloaded;
Graphics	AMD Radeon HD Graphics, integrated in processor, uses main memory. DirectX® 11.	Lenovo® Support Lenovo Companion
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets	 View Management Utility
Implementation	Turbo Core technology (up to 3.6GHz), integrated AMD Radeon™ HD 7480Ď Graphics, integrated DDR3 memory controller (up to 1600MHz) Processor in Socket FM2	Preloaded applications (only some listed) • ThinkVantage® System Update
Positioning Processor	Mainstream enterprise stability and manageability AMD Accelerated Processor A4-5300 (dual-core, 3.4GHz, 1MB L2 cache).	Preloaded operating system Windows® 8 Pro 64-bit

Slot x Type-model bay	Processor	Memory ⁸	SATA disk GB rpm	SATA optical	Media reader	Graphics	Chassis Intrusion switch	PS/2 port	Floor stand	ENERGY STAR 5.2		Win7 preload	Ann date (mm/dd/yy)
2113-A1U 4x3	A4-5300	2GBx1 2	250G 7200	DVD+RW	None	Badeon HD 7480D	None	None	Stand	FS52	None	Pro 32	08/28/12

Positioning Processor	Mainstream enterprise stability and manageability AMD Accelerated Processor A4-5300 (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core technology (up to 3.6GHz), integrated AMD Radeon™ HD 7480D Graphics, integrated DDP3 memory controller (up to 1600MHz)	Preloaded operating system Genuine Windows® 7 Professional 32
Implementation	integrated DDR3 memory controller (up to 1600MHz) Processor in Socket FM2	Ready to install applications (only some
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets	listed)
Graphics	AMD Radeon HD Graphics, integrated in processor, uses main memory, DirectX [®] 11, one VGA, one DisplayPort [™] , supports dual independent display; works along with discrete graphics to support up to four independent monitors; <i>Maximum resolution:</i> 1920x1200 (VGA) @ 60Hz; 2560x2048 (DisplayPort) @ 60Hz	 Rescue and Recovery™ Password Manager Business-in-a-Box Preloaded applications (only some listed)
DP dongle	None	ThinkVantage® Product Recovery ThinkVantage® Product Recovery ThinkVantage® Product Recovery
Disk Optical SATA controller Onboard SATA eSATA port Media reader	SATA 6.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar None None	 ThinkVantage System Update ThinkVantage Communication Utility ThinkVantage Power Manager View Management Utility Lenovo Solution Center Lenovo Message Center Plus Lenovo SimpleTap
Chipset	AMD A75 Chipset	Norton™ Internet Security (30 days of virus definitions)
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, optional keyboard (PS/2), optional mouse (PS/2) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for additional USB device)	Adobe® Reader® Google Chrome Google Toolbar Skype™ for Windows Evernote®
Audio Speaker IEEE 1394	High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio	 RapidBoot HDD Accelerator Symantec™ VIP Windows Live™ Essentials
Ethernet Modem	None One gigabit ethernet port, Realtek RTL8111E, Wake on LAN® None	Microsoft® Office preloaded; purchase a product key to activate Corel® Burn.Now™ (DVD±RW)
Security chip	Trusted Platform Module (TPM 1.2-compliant)	Corel DVD MovieFactory® (DVD±RW)
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	
Machine	Business black color; metal case 13.3" W X 15.0" D X 3.9" H 339mm W X 381mm 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	
Bay	Toolless adapter retention Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk	Security Security chip (see information on left) Security slot (in rear for attachment of optional Kensington® MicroSaver®
Slot	Bay 3: 3.5", .5" high, access, opt reader Slot 1: Low Profile, PCI Express 2.0 x16 (40w 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	cable) Cable lock Power-on password Administrator password Hard disk password Boot sequence control Boot without keyboard and mouse Individual USB port disablement
	disk optical	Chassis intrusion switch on selected model(s) EPEAT™ Gold rating ENERGY STAR 5.2-compliant ULE Gold RoHS-compliant Supports ThinkVantage Technologies
Limited Warrantv	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays,	For compatible accessories, please go to O-M78 sheet; For ThinkPlus™ service upgrade options.
	next business day response time / service upgrades available	please go to S-TC sheet

Type-mode	Slot x		Memory	SATA disk GB rpm	SATA optical	Media reader	Graphics	Chassis Intrusion switch		Floor stand	ENERGY STAR 5.2		Preload	Ann date (mm/dd/yy)
2113-D1l	J 4x3	A4-5300	2GBx1	250G 7200	DVD±RW	None	Radeon HD 7480D	None	None	Stand	ES52	None	Win8 Pro64	10/23/12
2113-D2l	J 4x3	A6-5400B	4GBx1	500G 7200	DVD±RW	None	Radeon HD 7540D	None	None	Stand	ES52	None	Win8 Pro64	10/23/12
2113-D3l	J 4x3	A8-5500B	4GBx1	1TB 7200	DVD±RW	None	Radeon HD 7560D	None	None	Stand	ES52	None	Win8 Pro64	10/23/12
2113-D4l	J 4x3	A8-5500B	4GBx1	1TB 7200	DVD±RW	None	Radeon HD 7450	None	None	Stand	ES52	None	Win8 Pro64	10/23/12
2113-E1l	J 4x3	A4-5300	2GBx1	250G 7200	DVD±RW	None	Radeon HD 7480D	None	None	Stand	ES52	None	Win7 Pro64	10/30/12

	To year mined warranty	
Positioning	Mainstream enterprise stability and manageability	Preloaded operating system
Processor	AMD Accelerated Processor A4-5300 (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core technology (up to 3.6GHz), integrated AMD Radeon™ HD 7480D Graphics, integrated DDR3 memory controller (up to 1600MHz) AMD Accelerated Processor A6-5400B (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core technology (up to 3.8GHz), integrated AMD Radeon HD 7540D Graphics, integrated DDR3 memory controller (up to 1866MHz) AMD Accelerated Processor A8-5500B (quad-core, 3.2GHz, 4MB L2 cache), Turbo Core technology (up to 3.7GHz), integrated AMD Radeon HD 7560D Graphics, integrated DDR3 memory controller (up to 1866MHz) Processor in Socket FM2	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 - ThinkVantage Power Manager
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets	ThinkVantage Power Manager Lenovo® Message Center Plus
Graphics	Some: AMD Radeon HD Graphics, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; works along with discrete graphics to support up to four independent monitors; Maximum resolution: 1920x1200 (VGA)@60Hz; 2560x2048 (DP)@60Hz Some: AMD Radeon HD 7450, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; Maximum resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors	Lenovo SimpleTap Adobe® Reader® Google Chrome Google Toolbar RapidBoot HDD Accelerator Symantec™ VIP Windows Live™ Essentials Corel® Burn.Now™ (DVD±RW) Corel DVD MovieFactory® (DVD±RW)
DP dongle	None	- Windows 8 models
Disk Optical SATA controller Onboard SATA eSATA port Media reader	SATA 6.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar None None	Lenovo Support Lenovo Companion Lenovo Cloud Storage Lenovo QuickLaunch Norton™ Studio Intel AppUp® AccuWeather
Chipset	AMD A75 Chipset	PC Device Stage
Front ports Rear ports Rear audio ports	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, optional keyboard (PS/2), optional mouse (PS/2) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for additional USB device) High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio None One gigabit ethernet port, Realtek RTL8111E, Wake on LAN® None Trusted Platform Module (TPM 1.2-compliant)	Cyberlink Power2Go (DVD±RW) Cyberlink PowerProducer (DVD±RW) All models ThinkVantage® System Update View Management Utility Lenovo Solution Center Norton Internet Security (30 days of virus definitions) Microsoft® Office preloaded; purchase a product key to activate Evernote® Skype™
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	Security Security chip (see information on left)
Machine	Business black color; metal case 13.3" W X 15.0" D X 3.9" H 339mm W X 381mm 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 Boot sequence control
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 Chassis intrusion switch on selected model(s)
GIUL	Slot 1: Low Profile, PCI Express 2.0 x16 (40w 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	EPEAT™ Gold rating ENERGY STAR 5.2-compliant ULE Gold RoHS-compliant Supports ThinkVantage Technologies For compatible accessories,
Limited Warranty	3-years , limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	lplease go to O-M78 sheet; For ThinkPlus™ service upgrade options, please go to S-TC sheet

Product Specifications Reference (PSREF)

Slot x Type-model bay		Processor	Memory	SATA disk y ⁸ GB rpm	SATA optical	Media reader	Graphics	Chassis Intrusion switch			ENERGY STAR 5.2			Ann date (mm/dd/yy)
	2114-A1U 4x3	A6-5400B	4GBx1	500G 7200	DVD±RW	None	Radeon HD 7540D	None	None	Stand	ES52	GΡ	Pro 64	08/28/12

Positioning	Mainstream enterprise stability and manageability	Preloaded operating system
Processor	AMD Accelerated Processor A6-5400B (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core technology (up to 3.8GHz), integrated AMD Radeon HD 7540D Graphics, integrated DDR3 memory controller (up to 1866MHz)	Genuine Windows® 7 Professional 64
Implementation	Processor in Socket FM2	Ready to install applications (only some
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets	listed)
Graphics	AMD Radeon HD Graphics, integrated in processor, uses main memory, DirectX [®] 11, one VGA, one DisplayPort™, supports dual independent display; works along with discrete graphics to support up to four independent monitors; <i>Maximum resolution:</i> 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz	 Rescue and Recovery™ Password Manager Business-in-a-Box Preloaded applications (only some listed)
DP dongle	None	ThinkVantage® Product Recovery
Disk Optical SATA controller Onboard SATA eSATA port Media reader	SATA 6.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar None None	 ThinkVantage System Update ThinkVantage Communication Utility ThinkVantage Power Manager View Management Utility Lenovo Solution Center Lenovo Message Center Plus Lenovo Simple Tap
Chipset	AMD A75 Chipset	 Norton™ Internet Security (30 days of virus definitions)
Front ports Rear ports Rear audio ports Internal connector Audio Speaker IEEE 1394 Ethernet Modem Security chip Keyboard Mouse Floor Stand Power supply Machine	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, optional keyboard (PS/2), optional mouse (PS/2) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for additional USB device) High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio None One gigabit ethernet port, Realtek RTL8111E, Wake on LAN® 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 15.0" D X 3.9" H 339mm W X 381mm D X 100mm H 16.5 lb (7.5 kg) in maximum configuration	Adobe® Reader® Google Chrome Google Toolbar Skype™ for Windows Evernote® RapidBoot HDD Accelerator Symantec™ VIP 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)
-	Bay 2: 3.5", 1" high, no access, std disk Bay 3: 3.5", .5" high, access, opt reader	Security slot (in rear for attachment of optional Kensington® MicroSaver®
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (40w 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	cable) Cable lock Power-on password Administrator password Hard disk password Boot sequence control Boot without keyboard and mouse Individual USB port disablement Chassis intrusion switch on selected model(s)
	disk optical	EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ULE Gold RoHS-compliant
		Supports ThinkVantage Technologies
Limited Warranty	3-years , limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	For compatible accessories, please go to O-M78 sheet; For ThinkPlus™ service upgrade options, please go to S-TC sheet

ThinkCentre M78 Small (2114) - ES 5.2 (GMP) - Win 8 - withdrawn

Product Specifications Reference (PSREF)

Slot x Type-model bay	Processor	Memory ⁶	SATA disk GB rpm	SATA optical	Media reader	Graphics	Chassis Intrusion switch	PS/2 port	Floor ENERGY stand STAR 5.2	Global (G) GMP (P)	Ann date Preload <i>(mm/dd/yy)</i>
		_				Radeon HD 7540E					Win8 Pro64 10/23/12 Win7 Pro64 10/30/12

Positioning Processor	Mainstream enterprise stability and manageability AMD Accelerated Processor A6-5400B (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core technology (up to 3.8GHz), integrated AMD Radeon HD 7540D Graphics,	Preloaded operating system Some: Windows® 7 Professional 64
	integrated DDR3 memory controller (up to 1866MHz)	preinstalled through downgrade rights in Windows 8 Pro 64-bit
Implementation	Processor in Socket FM2	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	AMD Radeon HD Graphics, integrated in processor, uses main memory, DirectX [®] 11, one VGA, one DisplayPort™, supports dual independent display; works along with discrete graphics to support up to four independent monitors; <i>Maximum resolution:</i> 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz	Windows 7 models ThinkVantage® Product Recovery ThinkVantage Communication Utility ThinkVantage Power Manager
DP dongle	None	Lenovo® Message Center Plus
Disk	SATA 6.0Gb/s 7200 rpm	Lenovo SimpleTap Adobe® Reader®
Optical SATA controller	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1	Google Chrome
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar	Google Toolbar
eSATA port	None	RapidBoot HDD Accelerator
Media reader	None	Symantec™ VIP Windows Live™ Essentials
Chipset	AMD A75 Chipset	 Windows Live[™] Essentials Corel[®] Burn.Now[™] (DVD±RW)
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	Corel DVD MovieFactory® (DVD±RW)
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)	- Windows 8 models • Lenovo Support
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)	Lenovo Companion
	Two USB 2.0 planar conn (1 used; one open for additional USB device)	Lenovo Cloud Storage
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	Lenovo QuickLaunch Norton™ Studio
Speaker IEEE 1394	Internal speaker for business audio	Intel AppUp®
Ethernet	None One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®	AccuWeather
Modem	None	PC Device Stage Charlist Bases (B)
Security chip	Trusted Platform Module (TPM 1.2-compliant)	Cyberlink Power2Go (DVD±RW) Cyberlink PowerProducer (DVD±RW)
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	- All models
Mouse	Enhanced Optical USB Mouse, black, Lenovo logo	
Floor Stand	System floor stand for vertical orientation	ThinkVantage® System Update View Management Utility
Power supply	240 watts, autosensing, 85% PSU	Lenovo Solution Center
Machine	Business black color; metal case	Norton Internet Security
	■ 13.3" W X 15.0" D X 3.9" H ■ 339mm W X 381mm D X 100mm H	(30 days of virus definitions) • Microsoft® Office preloaded;
	• 16.5 lb (7.5 kg) in maximum configuration	purchase a product key to activate
	Toolless cover flips up and tilts backward on rear hinges	Evernote®
	Toolless disk and optical drive removal	 Skype™
5	Toolless adapter retention	
Bay	Bay 1: 5.25", 1.6" high, access, std optical Bay 2: 3.5", 1" high, no access, std disk	Security
	Bay 3: 3.5", .5" high, access, opt reader	Security Security chip (see information on left)
Slot	Slot 1: Low Profile, PCI Express 2.0 x16 (40w max) Slot 2: Low Profile, PCIe 2.0 x1 Slot 3: Low Profile, 32-bit PCI 2.3	Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
	Slot 4: Low Profile, 32-bit PCI 2.3	Cablé lock
		Power-on password Advision to the second s
		Administrator password Hard disk password
		Boot sequence control
		Boot without keyboard and mouse
	disk optical	Individual USB port disablement
	Optical Optical	Chassis intrusion switch on selected model(s)
		1 /
		EPEAT™ Gold rating ENERGY STAR® 5.2-compliant
		ULE Gold
		RoHS-compliant
		Supports ThinkVantage Technologies
		For compatible accessories,
		please go to O-M78 sheet:
Limited Warranty	3-years , limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	For ThinkPlus™ service upgrade options, please go to S-TC sheet
	nont business day response time / service apyrades available	produce go to o-10 driet

ThinkCentre M78 Tower (2111) - TopSeller - withdrawn

Type-mode	Slot x I bay	Processor	Memory	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics			ENERGY STAR 5.2		Win7 reload	Ann date (mm/dd/yy)
2111-A1L	J 4x5	A4-5300	2GBx1	250G 7200	Bay	DVD±RW	None	Radeon HD 7480D	None	None	None	None I	Pro 64	08/28/12
2111-A2L	1 4x5	A6-5400B	4GBx1	500G 7200	Bay	DVD±RW	None	Radeon HD 7540D	None	None	None	None I	Pro 64	08/28/12
2111-A3L	1 4x5	A8-5500B	4GBx1	1TB 7200	Bay	DVD±RW	None	Radeon HD 7560D	None	None	None	None I	Pro 64	08/28/12
2111-A4L	J 4x5	A8-5500B	4GBx1	1TB 7200	Bay	DVD±RW	None	GeForce 605	None	None	None	None I	Pro 64	08/28/12

- Small and medium business (SMB) model(s), part of the US TopSeller Program 3-year limited warranty

Positioning	Mainstream enterprise stability and manageability	Preloaded operating system
Processor	AMD Accelerated Processor A4-5300 (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core technology (up to 3.6GHz), integrated AMD Radeon™ HD 7480D Graphics, integrated DDR3 memory controller (up to 1600MHz)	Genuine Windows® 7 Professional 64
	AMĎ Accelerated Processor A6-5400B (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core technology (up to 3.8GHz), integrated AMD Radeon HD 7540D Graphics,	Ready to install applications (only some listed)
	integrated DDR3 memory controller (up to 1866MHz) AMD Accelerated Processor A8-5500B (quad-core, 3.2GHz, 4MB L2 cache),	 Rescue and Recovery[™] Password Manager
	Turbo Core technology (up to 3.7GHz), integrated AMD Radeon HD 7560D Graphics, integrated DDR3 memory controller (up to 1866MHz)	Business-in-a-Box
Implementation	Processor in Socket FM2	Preloaded applications (only some listed)
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets	ThinkVantage® Product Recovery ThinkVantage System Update
Graphics	Some: AMD Radeon HD Graphics, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; works along with discrete graphics to support up to four independent monitors; Maximum resolution: 1920x1200 (VGA)@60Hz; 2560x2048 (DP)@60Hz Some: NVIDIA® GeForce® 605, PCI Express® 2.0 x16 adapter, DirectX 11, 512MB, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 30 watts; Maximum resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz	ThinkVantage Communication Utility ThinkVantage Power Manager View Management Utility Lenovo Solution Center Lenovo Message Center Plus Lenovo SimpleTap Norton™ Internet Security
DP dongle	None	(30 days of virus definitions) • Adobe® Reader®
Disk	SATA 6.0Gb/s 7200 rpm	Google Chrome
Optical SATA controller	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1	Google Toolbar Slang TM for Windows
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar	Skype™ for Windows Evernote®
eSATA port	None	RapidBoot HDD Accelerator Company of TMA/ID
Media reader Chipset	None AMD A75 Chipset	● Symantec™ VIP ● 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 active to
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)	purchase a product key to activate • Corel® Burn.Now™ (DVD±RW) • Corel DVD MovieFactory® (DVD±RW)
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)	
Audio	Two USB 2.0 planar conn (1 used; one open for additional USB device) High Definition (HD) Audio, Realtek® ALC662 codec	
Speaker	Internal speaker for business audio	
IEEE 1394	None	
Ethernet Modem	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®	
Security chip	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	
Power supply	280 watts with variable speed fan, manual switch	
Machine	 Business black color; metal case 6.9" W X 17.4" D X 16.3" H 	Security
	• 175mm W X 442mm D X 414mm H	Security chip (see information on left) One lock to secure both cover and
	 27.5 lb (12.5 kg) in maximum configuration Toolless cover removal, toolless adapter retention 	entire system to fixed object:
	Toolless disk, optical drive removal	-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	Kensington® MicroSaver® cable)
	Bay 3: 3.5", 1" high, access, opt reader	Cable lock Power on password
	Bay 4: 3.5", 1" high, no access, std disk	Power-on password Administrator password
Slot	Bay 5: 3.5", 1" high, no access, opt disk Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w max)	Hard disk password
- 	Slot 2: half-length, full-height, PCIe 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	 Individual USB port disablement
	Cot it has longer, fair noight, or bit i or 2.0	Chassis intrusion switch on selected model(s)
		RoHS-compliant
		Supports ThinkVantage Technologies
		For compatible accessories,
Limited Warranty	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays,	l please go to O-M78 sheet; For ThinkPlus™ service upgrade options,
tod viairanty	next business day response time / service upgrades available	please go to S-TC sheet

Type-mod		ot x ay	Processor	Memory	SATA disk 2 GB rpm			Media reader	Graphics			ENERGY STAR 5.2		Preload	Ann date (mm/dd/yy)
2111-B2	U 4x	√ 5	A4-5300	2GBx1	250G 7200	Bay	DVD±RW	None	Radeon HD 7480D	None	None	None	None	Win8 Pro64	1 10/23/12
2111-B3	U 4x	√ 5	A6-5400B	4GBx1	500G 7200	Bay	DVD±RW	None	Radeon HD 7540D	None	None	None	None	Win8 Pro64	1 10/23/12
2111-C2	U 4x	√ 5	A4-5300	2GBx1	250G 7200	Bay	DVD±RW	None	Radeon HD 7480D	None	None	None	None	Win7 Pro64	1 10/30/12
2111-C3	U 4x	√ 5	A6-5400B	4GBx1	500G 7200	Bay	DVD±RW	None	Radeon HD 7540D	None	None	None	None	Win7 Pro64	1 10/30/12

- Small and medium business (SMB) model(s), part of the US TopSeller Program
- 3-year limited warranty

Limited Warranty	3-years , limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	For ThinkPlus™ service upgrade options, please go to S-TC sheet
		For compatible accessories, please go to O-M78 sheet;
		Supports ThinkVantage Technologies
		RoHS-compliant
	<u>(5)</u>	Chassis intrusion switch on selected model(s)
		Boot without keyboard and mouse Individual USB port disablement
		Hard disk password Boot sequence control
	3 disk	Administrator password
	Slot 4: half-length, full-height, 32-bit PCI 2.3	Cable lock Power-on password
	Slot 2: half-length, full-height, PCle 2.0 x1 Slot 3: half-length, full-height, 32-bit PCl 2.3	Kensington® MicroSaver® cable)
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w max)	-Padlock loop (in rear for opt padlock) -Security slot (in rear for optional
	Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk	entire system to fixed object:
	Bay 3: 3.5", 1" high, access, opt reader	Security chip (see information on left) One lock to secure both cover and
Бау	Bay 2: 5.25", 1.6" high, access, open	Security chip (see information on left)
Bay	Toolless disk, optical drive removal Bay 1: 5.25", 1.6" high, access, std optical	
	Toolless cover removal, toolless adapter retention	У Окуре
	 175mm W X 442mm D X 414mm H 27.5 lb (12.5 kg) in maximum configuration 	Evernote® Skype™
	• 6.9" W X 17.4" D X 16.3" H	purchase a product key to activate
Machine	Business black color; metal case	(30 days of virus definitions) • Microsoft® Office preloaded;
Power supply	280 watts with variable speed fan, manual switch	 Norton Internet Security
Keyboard Mouse	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Enhanced Optical USB Mouse, black, Lenovo logo	View Management Utility Lenovo Solution Center
Security chip	Trusted Platform Module (TPM 1.2-compliant)	ThinkVantage® System Update View Management Littlity
Modem	None	- All models
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®	Cyberlink PowerProducer (DVD±RW)
Speaker IEEE 1394	Internal speaker for business audio None	 Cyberlink Power2Go (DVD±RW)
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	AccuWeather PC Device Stage
Internal connector	Two USB 2.0 planar conn (1 used; one open for additional USB device)	Intel AppUp®
Rear audio ports	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)	Lenovo QuickLaunch Norton™ Studio
Rear ports	Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)	Lenovo Cloud Storage
Front ports	Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)	Lenovo Companion
Chipset	AMD A75 Chipset	Lenovo Support
Media reader	None	- Windows 8 models
eSATA port	None	 Corel® Burn.Now™ (DVD±RW) Corel DVD MovieFactory® (DVD±RW)
Onboard SATA	Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar	 Windows Live™ Essentials
Optical SATA controller	Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1	Symantec™ VIP
Disk Optical	SATA 6.0Gb/s 7200 rpm	Google Toolbar RapidBoot HDD Accelerator
DP dongle	None	Google Chrome
	Maximum resolution: 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz	Lenovo SimpleTap Adobe® Reader®
	one VGA, one DisplayPort™, supports dual independent display; works along with discrete graphics to support up to four independent monitors;	Lenovo® Message Center Plus
Graphics	AMD Radeon HD Graphics, integrated in processor, uses main memory, DirectX® 11,	ThinkVantage Communication Utility ThinkVantage Power Manager
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets	ThinkVantage® Product Recovery
Implementation	Processor in Socket FM2	- Windows 7 models
	Turbo Core technology (up to 3.8GHz), integrated AMD Radeon HD 7540D Graphics, integrated DDR3 memory controller (up to 1866MHz)	Preloaded applications (only some listed)
	AMĎ Accelerated Processor A6-5400B (dual-core, 3.6GHz, 1MB L2 cache),	rights in Windows 8 Pro 64-bit Some: Windows 8 Pro 64-bit
	Turbo Core technology (up to 3.6GHz), integrated AMD Radeon™ HD 7480D Graphics, integrated DDR3 memory controller (up to 1600MHz)	preinstalled through downgrade
Processor	AMD Accelerated Processor A4-5300 (dual-core, 3.4GHz, 1MB L2 cache),	Some: Windows® 7 Professional 64
Positioning	Mainstream enterprise stability and manageability	Preloaded operating system

ThinkCentre M78 Tower (1766) - withdrawn

Type-model	Slot x bay	Processor	Memory	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics			ENERGY STAR 5.2 Global		Ann date (mm/dd/yy)
1766-A7U	4x5	A6-5400B	4GBx1	500G 7200	Bay	DVD±RW	None	Radeon HD 7540D	None	None	None None	Pro 32	08/28/12
1766-B1U	4x5	A4-5300	2GBx1	250G 7200	Bay	DVD±RW	None	Radeon HD 7480D	None	None	None None	Pro 64	08/28/12
1766-B2U	4x5	A4-5300	2GBx1	250G 7200	Bay	DVD±RW	None	Radeon HD 7480D	None	None	None None	Prem 3	2 08/28/12
1766-B3U	4x5	A8-5500B	4GBx1	1TB 7200	Bay	DVD±RW	None	Radeon HD 7560D	None	None	None None	Pro 64	08/28/12
1766-B4U	4x5	A6-5400B	4GBx1	500G 7200	Bay	DVD±RW	None	Radeon HD 7540D	None	None	None None	Pro 64	08/28/12

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Positioning Processor	Mainstream enterprise stability and manageability AMD Accelerated Processor A4-5300 (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core technology (up to 3.6GHz), integrated AMD Radeon™ HD 7480D Graphics, integrated DDR3 memory controller (up to 1600MHz) AMD Accelerated Processor A6-5400B (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core technology (up to 3.8GHz), integrated AMD Radeon HD 7540D Graphics, integrated DDR3 memory controller (up to 1866MHz) AMD Accelerated Processor A8-5500B (quad-core, 3.2GHz, 4MB L2 cache), Turbo Core technology (up to 3.7GHz), integrated AMD Radeon HD 7560D Graphics, integrated DDR3 memory controller (up to 1866MHz)	Preloaded operating system Some: Genuine Windows® 7 Professional 32 Some: Genuine Windows 7 Professional 64 Some: Genuine Windows 7 Home Premium 32 Ready to install applications (only some listed)
Implementation	Processor in Socket FM2	 Rescue and Recovery™
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets	Password Manager Business-in-a-Box
Graphics	AMD Radeon HD Graphics, integrated in processor, uses main memory, DirectX [®] 11, one VGA, one DisplayPort™, supports dual independent display; works along with discrete graphics to support up to four independent monitors; <i>Maximum resolution:</i> 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz	Preloaded applications (only some listed) ThinkVantage® Product Recovery ThinkVantage System Update
DP dongle	None	 ThinkVantage Communication Utility
Disk Optical SATA controller Onboard SATA eSATA port Media reader	SATA 6.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar None None	ThinkVantage Power Manager View Management Utility Lenovo Solution Center Lenovo Message Center Plus Lenovo SimpleTap Norton™ Internet Security (30 days of virus definitions)
Chipset	AMD A75 Chipset	Adobe® Reader® Google Chrome
Front ports Rear ports	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, optional keyboard (PS/2), optional mouse (PS/2)	Google Thorne Google Toolbar Skype™ for Windows Evernote®
Rear audio ports Internal connector Audio Speaker IEEE 1394 Ethernet	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for additional USB device) High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio None One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®	RapidBoot HDD Accelerator Symantec™ VIP Windows Live™ Essentials Microsoft® Office preloaded; purchase a product key to activate Corel® Burn.Now™ (DVD±RW) Corel DVD MovieFactory® (DVD±RW)
Modem	None	Goldi BVB Moviel actory (BVB±11VV)
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 with variable speed fan, manual switch	
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 27.5 lb (12.5 kg) in maximum configuration Toolless cover removal, toolless adapter retention Toolless disk, optical drive removal 	Security Security (see information on left)
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	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)
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w 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	Cable lock Power-on password Administrator password Hard disk password Boot sequence control Boot without keyboard and mouse Individual USB port disablement Chassis intrusion switch on selected model(s) RoHS-compliant Supports ThinkVantage Technologies For compatible accessories,
		please go to O-M78 sheet;
Limited Warranty	3-years , limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	For ThinkPlus™ service upgrade options, please go to S-TC sheet

Type-model	Slot x bay	Processor	Memory	SATA disk GB rpm	2nd Disk Bay	SATA optical	Media reader	Graphics	Chassis intr switch	PS/2 port	ENERGY STAR 5.2	Global		Ann date (mm/dd/yy)
1562-A1U	4x5	A4-5300	2GBx1	250G 7200	Bay	DVD±RW	None	Radeon HD 7480E	None	None	ES52	None	Pro 32	08/28/12
1562-C1U	4x5	A4-5300	2GBx1	250G 7200	Bay	DVD±RW	None	Radeon HD 7480D	None	None	ES52	None	Prem 32	08/28/12
1562-C2U	4x5	A4-5300	2GBx1	250G 7200	Bay	DVD±RW	None	Radeon HD 7480D	None	None	ES52	None	Pro 64	08/28/12
1562-C3U	4x5	A6-5400B	4GBx1	500G 7200	Bay	DVD±RW	None	Radeon HD 7540D	None	None	ES52	None	Pro 64	08/28/12
1562-C4U	4x5	A8-5500B	4GBx1	1TB 7200	Bay	DVD±RW	None	Radeon HD 7560D	None	None	ES52	None	Pro 64	08/28/12
1562-C5U	4x5	A8-5500B	4GBx1	1TB 7200	Bay	DVD±RW	None	GeForce 605	None	None	ES52	None	Pro 64	08/28/12

	•3-year limited warranty	
Positioning Processor	Mainstream enterprise stability and manageability AMD Accelerated Processor A4-5300 (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core technology (up to 3.6GHz), integrated AMD Radeon™ HD 7480D Graphics, integrated DDR3 memory controller (up to 1600MHz) AMD Accelerated Processor A6-5400B (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core technology (up to 3.8GHz), integrated AMD Radeon HD 7540D Graphics, integrated DDR3 memory controller (up to 1866MHz) AMD Accelerated Processor A8-5500B (quad-core, 3.2GHz, 4MB L2 cache), Turbo Core technology (up to 3.7GHz), integrated AMD Radeon HD 7560D Graphics, integrated DDR3 memory controller (up to 1866MHz)	Preloaded operating system Some: Genuine Windows® 7 Professional 32 Some: Genuine Windows 7 Professional 64 Some: Genuine Windows 7 Home Premium 32 Ready to install applications (only some listed)
Implementation	Processor in Socket FM2	 Rescue and Recovery™ Password Manager
Memory Graphics	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets Some: AMD Radeon HD Graphics, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; works along with discrete graphics to support up to four independent monitors; Maximum resolution: 1920x1200 (VGA)@60Hz; 2560x2048 (DP)@60Hz Some: NVIDIA® GeForce® 605, PCI Express® 2.0 x16 adapter, DirectX 11, 512MB, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 30 watts; Maximum resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz	 Business-in-a-Box Preloaded applications (only some listed) ThinkVantage® Product Recovery ThinkVantage System Update ThinkVantage Communication Utility ThinkVantage Power Manager View Management Utility
DP dongle	None	Lenovo Solution Center
Disk Optical SATA controller Onboard SATA eSATA port Media reader	SATA 6.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar None None	Lenovo Message Center Plus Lenovo SimpleTap Norton™ Internet Security (30 days of virus definitions) Adobe® Reader® Google Chrome Google Toolbar
Chipset	AMD A75 Chipset	Skype™ for Windows
Audio Speaker	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, optional keyboard (PS/2), optional mouse (PS/2) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for additional USB device) High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio	Evernote® RapidBoot HDD Accelerator Symantec™ VIP Windows Live™ Essentials Microsoft® Office preloaded; purchase a product key to activate Corel® Burn.Now™ (DVD±RW) Corel DVD MovieFactory® (DVD±RW) InterVideo WinDVD® (DVD, DVD±RW)
IEEE 1394 Ethernet Modem Security chip	None One gigabit ethernet port, Realtek RTL8111E, Wake on LAN® 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 (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 27.5 lb (12.5 kg) in maximum configuration Toolless cover removal, toolless adapter retention Toolless disk, optical drive removal	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 Administrator password Hard disk password Boot sequence control Boot without keyboard and mouse Individual USP part disablement
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w 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 RoHS-compliant Supports ThinkVantage Technologies For compatible accessories.
Limited Warranty	3-years , limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	please go to O-M78 sheet; For ThinkPlus™ service upgrade options, please go to S-TC sheet

Slot x Type-model bay	SATA disk 2nd Disk SATA Media Chassis P Processor Memory [®] GB rpm Bay optical reader Graphics intr switch p	S/2 ENERGY Ann date ort STAR 5.2 Global Preload (mm/dd/yy)				
1562-E3U 4x5 A	A6-5400B 4GBx1 500G 7200 Bay DVD±RW None Radeon HD 7540D None No A8-5500B 4GBx1 1TB 7200 Bay DVD±RW None Radeon HD 7560D None No A8-5500B 4GBx1 1TB 7200 Bay DVD±RW None Radeon HD 7450 None No	one ES52 None Win8 Pro64 10/23/12 one ES52 None Win7 Pro64 10/30/12				
	•3-year limited warranty					
Positioning Processor Implementation Memory Graphics	Mainstream enterprise stability and manageability AMD Accelerated Processor A4-5300 (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core technology (up to 3.6GHz), integrated AMD Radeon™ HD 7480D Graphics, integrated DDR3 memory controller (up to 1600MHz) AMD Accelerated Processor A6-5400B (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core technology (up to 3.8GHz), integrated AMD Radeon HD 7540D Graphics, integrated DDR3 memory controller (up to 1866MHz) AMD Accelerated Processor A8-5500B (quad-core, 3.2GHz, 4MB L2 cache), Turbo Core technology (up to 3.7GHz), integrated AMD Radeon HD 7560D Graphics, integrated DDR3 memory controller (up to 1866MHz) Processor in Socket FM2 32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets Some: AMD Radeon HD Graphics, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; works along with discrete graphics to support up to four independent monitors; Maximum resolution: 1920x1200 (VGA) @60Hz; 2560x2048 (DP) @60Hz Some: AMD Radeon HD 7450, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts;	Preloaded operating system 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 ThinkVantage Power Manager Lenovo® Message Center Plus Lenovo SimpleTap Adobe® Reader® Google Chrome Google Toolbar RapidBoot HDD Accelerator Symantec™ VIP Windows Live™ Essentials				
DP dongle	Maximum resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz; works along with Intel HD Graphics to support up to four independent monitors None	 Corel® Burn.Now™ (DVD±RW) Corel DVD MovieFactory® (DVD±RW) Windows 8 models Lenovo Support 				
Disk Optical SATA controller Onboard SATA eSATA port Media reader Chipset	SATA 6.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar None None AMD A75 Chipset	 Lenovo Support Lenovo Companion Lenovo Cloud Storage Lenovo QuickLaunch Norton™ Studio Intel AppUp® AccuWeather 				
Front ports Rear ports	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, optional keyboard (PS/2), optional mouse (PS/2)	PC Device Stage Cyberlink Power2Go (DVD±RW) Cyberlink PowerProducer (DVD±RW) All models				
Rear audio ports Internal connector Audio Speaker IEEE 1394 Ethernet Modem Security chip	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for additional USB device) High Definition (HD) Audio, Realtek® ALC662 codec Internal speaker for business audio None One gigabit ethernet port, Realtek RTL8111E, Wake on LAN® None Trusted Platform Module (TPM 1.2-compliant)	ThinkVantage® System Update View Management Utility Lenovo Solution Center Norton Internet Security (30 days of virus definitions) Microsoft® Office preloaded; purchase a product key to activate Evernote® Skype™				
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 27.5 lb (12.5 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 Administrator password Hard disk password Boot sequence control				
Slot	Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w 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	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 RoHS-compliant Supports ThinkVantage Technologies For compatible accessories, please go to O-M78 sheet;				
Limited Warranty	3-years , limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	For ThinkPlus™ service upgrade options, please go to S-TC sheet				

Product Specifications Reference (PSREF)

Type-model	Slot x bay	Processor	Memory ⁸	SATA disk 2 GB rpm	nd Disl Bay		Media reader	Graphics	Chassis intr switch		ENERGY STAR 5.2			Ann date (mm/dd/yy)
1565-A1U	4x5	A6-5400B	4GBx1	500G 7200	Bay	DVD+RW	None	Badeon HD 7540	D None	None	FS52	GP	Pro 64	08/28/12

Limited Warranty	3-years , limited onsite service , 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available	For ThinkPlus™ service upgrade options, please go to S-TC sheet				
		For compatible accessories, please go to O-M78 sheet;				
		ENERGY STAR 5.2-compliant ULE Gold RoHS-compliant Supports ThinkVantage Technologies				
	(3) disk ====================================	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				
	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 optical	Kensington® MicroSaver® cable) Cable lock Power-on password Administrator password				
Slot	Bay 4: 3.5", 1" high, no access, std disk Bay 5: 3.5", 1" high, no access, opt disk Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w max)	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	 Toolless cover removal, toolless adapter retention Toolless disk, optical drive removal 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 	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 27.5 lb (12.5 kg) in maximum configuration 					
Mouse Power supply	Enhanced Optical USB Mouse, black, Lenovo logo 280 watts, autosensing, 85% PSU					
Security chip Keyboard	Trusted Platform Module (TPM 1.2-compliant) Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	Corel DVD MovieFactory® (DVD±RW)				
Ethernet Modem	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN® None	purchase a product key to activate • Corel® Burn.Now™ (DVD±RW)				
Speaker IEEE 1394	Internal speaker for business audio None	Symantec™ VIP Windows Live™ Essentials Microsoft® Office preloaded;				
Internal connector Audio	Two USB 2.0 planar conn (1 used; one open for additional USB device) High Definition (HD) Audio, Realtek® ALC662 codec	Evernote® RapidBoot HDD Accelerator Symantec™ VIP				
Rear audio ports	optional keyboard (PS/2), optional mouse (PS/2) Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)	 Google Chrome Google Toolbar Skype™ for Windows 				
Front ports Rear ports	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,	(30 days of virus definitions) • Adobe® Reader®				
Media reader Chipset	None AMD A75 Chipset	Lenovo Simple Tap Norton™ Internet Security				
eSATA port	None	Lenovo Solution Center Lenovo Message Center Plus Lenovo Simple Ten				
SATA controller Onboard SATA	Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar	ThinkVantage Power Manager View Management Utility				
Disk Optical	SATA 6.0Gb/s 7200 rpm Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive	ThinkVantage System Update ThinkVantage Communication Utility ThinkVantage Payers Management				
DP dongle	None	ThinkVantage® Product Recovery ThinkVantage® System Undete				
Спартнос	one VGA, one DisplayPort™, supports dual independent display; works along with discrete graphics to support up to four independent monitors; <i>Maximum resolution:</i> 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz	 Password Manager Business-in-a-Box Preloaded applications (only some listed) 				
Memory Graphics	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets AMD Radeon HD Graphics, integrated in processor, uses main memory, DirectX® 11,	Rescue and Recovery™ Rescue and Recovery™				
Implementation	Processor in Socket FM2	Ready to install applications (only some listed)				
Processor	AMD Accelerated Processor A6-5400B (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core technology (up to 3.8GHz), integrated AMD Radeon HD 7540D Graphics, integrated DDR3 memory controller (up to 1866MHz)	Genuine Windows® 7 Professional 64				
Positioning	Mainstream enterprise stability and manageability	Preloaded operating system				

Product Specifications Reference (PSREF)

Slot x Type-model bay	Memory ⁸	SATA disk 2 GB rpm				Chassis ntr switch			Ann date (mm/dd/yy)
			,		Radeon HD 7540D Radeon HD 7540D				

Positioning Processor	Mainstream enterprise stability and manageability AMD Accelerated Processor A6-5400B (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core technology (up to 3.8GHz) integrated AMD Redom HD 7540D Cropbing	Preloaded operating system Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit					
Implementation	Turbo Core technology (up to 3.8GHz), integrated AMD Radeon HD 7540D Graphics, integrated DDR3 memory controller (up to 1866MHz) Processor in Socket FM2						
Memory	32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets	Some: Windows 8 Pro 64-bit					
Graphics	AMD Radeon HD Graphics, integrated in processor, uses main memory, DirectX® 11,	Preloaded applications (only some listed) - Windows 7 models					
·	one VGA, one DisplayPort™, supports dual independent display; works along with discrete graphics to support up to four independent monitors; Maximum resolution: 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz	ThinkVantage Product Recovery ThinkVantage Communication Utility ThinkVantage Power Manager					
DP dongle	None	Lenovo® Message Center Plus					
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 6.0Gb/s, integrated in chipset, RAID 0/1 Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar None	Lenovo SimpleTap Adobe® Reader® Google Chrome Google Toolbar RapidBoot HDD Accelerator Symantec™ VIP					
Media reader	None	 Windows Live™ Essentials 					
Chipset	AMD A75 Chipset	Corel® Burn.Now™ (DVD±RW) (DVD±RW)					
Front ports Rear ports	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, optional keyboard (PS/2), optional mouse (PS/2)	Corel DVD MovieFactory® (DVD±RW) Windows 8 models					
Rear audio ports Internal connector	Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm) Two USB 2.0 planar conn (1 used; one open for additional USB device)	Lenovo SupportLenovo CompanionLenovo Cloud Storage					
Audio	High Definition (HD) Audio, Realtek® ALC662 codec	Lenovo QuickLaunch Norton M. Studio					
Speaker IEEE 1394	Internal speaker for business audio None	Norton™ Studio Intel AppUp®					
Ethernet	One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®	 AccuWeather 					
Modem	None	PC Device Stage Cyberlink Power2Go (DVD±RW)					
Security chip	Trusted Platform Module (TPM 1.2-compliant)	Cyberlink PowerProducer (DVD±RW)					
Keyboard	Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo	- All models					
Mouse Power supply	Enhanced Optical USB Mouse, black, Lenovo logo 280 watts, autosensing, 85% PSU	ThinkVantage® System Update					
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 27.5 lb (12.5 kg) in maximum configuration Toolless cover removal, toolless adapter retention Toolless disk, optical drive removal	View Management Utility Lenovo Solution Center Norton Internet Security (30 days of virus definitions) Microsoft® Office preloaded; purchase a product key to activate Evernote®					
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	• Skype™ Security					
Slot	Bay 5: 3.5", 1" high, no access, opt disk Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w 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 optical a disk o s s s	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) Cable lock Power-on password Administrator password 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 RoHS-compliant Supports ThinkVantage Technologies For compatible accessories,					
Limited Warranty	3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays,	_please go to O-M78 sheet; For ThinkPlus™ service upgrade options,					
	next business day response time / service upgrades available	please go to S-TC sheet					