



TOSHIBA Satellite L650-1PE

Processor	type : Intel® Core™ i5-460M Processor
	clock speed : 2.53 / 2.80 Turbo GHz
	Front Side Bus : 1,066 MHz
	3rd level cache : 3 MB
Operating system	Genuine Windows® 7 Home Basic 32-bit (pre-installed, Toshiba-HDD recovery)
Design Color	color : Precious Black with black full-size flat keyboard
System memory	standard: 3,072 (2,048 + 1,024) MB
	maximum expandability: 8,192 MB
	technology: DDR3 RAM (1066 MHz)
Hard disk	capacity: 320 GB
	drive rotation: 5,400 rpm
DVD Super Multi drive (Double Layer)	compatibility: CD-ROM, CD-R, CD-RW, DVD-ROM, DVD-R, DVD-R(DL), DVD-RW, DVD+R, DVD+R(DL), DVD+RW, DVD-RAM
	maximum speed: 24x CD-ROM, 8x DVD-ROM/ Write: 24x CD-R, 4x CD-RW, 10x HS CD-RW, 24x US CD-RW, 8x DVD-R, 6x DVD-R (Double Layer), 6x DVD-RW, 8x DVD+R, 6x DVD+R (Double Layer), 8x DVD+RW, 5x DVD-RAM
	type: DVD Super Multi (Double Layer) drive
Display	size: 39.6cm (15.6")
	type: Toshiba TruBrite® HD TFT High Brightness display with LED backlight with 16 : 9 aspect ratio
	internal resolution: 1,366 x 768
Graphics adaptor	manufacturer: ATI
	type: ATI Mobility Radeon™ HD 5650 supporting HyperMemory™ technology
	memory amount: 1,024 MB dedicated VRAM (total available graphics memory using HyperMemory™ technology can be up to 2,267 MB with a 32-bit operating system and 3 GB system memory or 4,083 MB with a 64-bit operating system and 8 GB system memory)
	memory type: DDR3 Video RAM (resp. Video RAM and system memory combined)
	connected bus : PCI Express®
Internal video modes	The following internal video modes are supported: resolution: 1,366 x 768
Max External Video Modes	Max Resolution : 2,048 x 1,536
	Max Refresh Rate : 100 Hz
	Non-interlaced resolution with max refresh rate : 1,600 x 1,200
Interfaces	1 x DC-in
	1 x external monitor
	1 x RJ-45
	1 x external microphone
	1 x headphone (stereo)
	1 x integrated VGA Web Camera with built-in microphone
	1 x Multi-Card Reader (supports SD™ Cards up to 64 GB, Memory Stick® up to 256 MB, Memory Stick Pro™ up to 16 GB and MultiMedia Card™ up to 2 GB)



	1 (Left) x eSATA/USB 2.0
	2 (Right 2) x USB 2.0
	1 x HDMI supporting 1080p signal format
Expansion	2 x memory slots (1 to configure)
Wireless communication	Compliance: Wi-Fi™
	Network Support: 802.11b/g/n
	Wireless Technology: Wireless LAN
	Wireless Technology : Bluetooth® 2.1 + EDR
Wired communication	topology : Fast Ethernet LAN
	speed: 10BASE-T/100BASE-TX
Sound system	supported audio format : 24-bit stereo
	speakers : built-in stereo speaker
	manufacturer: Toshiba Bass Enhanced Sound System with Dolby® Advanced Audio
Keyboard	keys: 102
	Windows keys: Yes
	special features : Full-size matt black flat keyboard with 10-digit numeric keypad
Pointing device	type : Touch Pad with Multi-Touch Control
Battery	technology: lithium-ion
	maximum life: up to 3h45min (Mobile Mark™ 2007)
AC adaptor	input voltage : autosensing AC adapter (100/240 V) for worldwide usage
	Output Voltage: 19 V
	Output Current: 3.95 A
Physical dimensions	W x L x H : 380.0 x 250.0 x 28.0 (front) / 37.9 (rear) mm
	weight : starting at 2.50 kg
Warranty	1-year international warranty.
Bundled hardware	AC adaptor
Bundled software	Toshiba Bluetooth™ Stack
	Toshiba Bluetooth™ Monitor
	Toshiba Disc Creator
	Toshiba User's Manual
	Supervisor Password Utility
	Toshiba Assist
	Chicony Camera Assistant Software
	Toshiba Face Recognition



	Toshiba Value Added Package (Toshiba Power Saver, Toshiba Zooming Utility, Toshiba PC Diagnostic Tool, Toshiba Flash Cards, Toshiba Components Common Driver, Toshiba Accessibility, Toshiba Button Support)
	McAfee® Internet Security (includes free Internet updates for 30 days)
	WildTangent Games Console
	Toshiba Photo Service
	Toshiba Recovery Media Creator
	Nero 9 Essentials
	Nero BackItUp & Burn Autobackup Essentials
	Bing Toolbar and Bing Search
	Amazon
	Microsoft® Office Starter 2010
	Connectivity Doctor
	ConfigFree™
	Toshiba utilities and drivers
Toshiba EasyMedia	<p>Easy Entertainment: HDMI-out Dolby® Advanced Audio</p> <p>Easy Connectivity: Bluetooth® 2.1 with EDR Toshiba Face Recognition Built-in Web Camera & Microphone Toshiba ConfigFree™ Multi-Card Reader</p> <p>Easy Usability: Power-saving Eco Utility McAfee® Internet Security (includes free Internet updates for 30 days) Nero Software Toshiba Media Controller Display with LED backlighting PC Health Monitor Toshiba LifeSpace Toshiba TEMPRO Performance Tuning Service Smart Display Support Touch Pad with Multi-Touch Control</p>
Security features	user password
	slot for Kensington Cable Lock
	supervisor password
	HDD password on request
Special features	SM BIOS compliant
	Enhanced Intel® SpeedStep® Technology
	HD Audio supporting
	integrated microphone for Voice over IP
	ENERGY STAR qualified computer
integrated VGA Web Camera for Video over IP	