

TravelMate P648-MG (Win10 HOL) Specifications (v5-0-4)		
Category	Description	Footnotes
Operating 1	Windows 10 Pro 64-bit	2
system	Windows 10 Home 64-bit	2
CPU and chipset 1	Intel [®] Core [™] i7-6600U vPro [™] processor (4 MB L3 cache, 2.6 GHz with	
	Turbo Boost up to 3.4 GHz, DDR4 2133 MHz or DDR3L 1600 MHz, 15	
	W), supporting Intel [®] 64 architecture, Intel [®] Smart Cache	
	Intel [®] Core [™] i7-6500U processor (4 MB L3 cache, 2.5 GHz with Turbo	
	Boost up to 3.1 GHz, DDR3L 1600 MHz, 15 W), supporting Intel® 64	
	architecture, Intel [®] Smart Cache	
	Intel [®] Core [™] i5-6300U vPro [™] processor (3 MB L3 cache, 2.4 GHz with	
	Turbo Boost up to 3.0 GHz, DDR3 1600 MHz, 15 W), supporting Intel [®] 64	
	architecture, Intel [®] Smart Cache	
	Intel [®] Core TM i5-6200U processor (3 MB L3 cache, 2.3 GHz with Turbo	
	Boost up to 2.8 GHz, DDR3L 1600 MHz, 15 W), supporting Intel [®] 64	
	architecture, Intel® Smart Cache	
	Intel [®] Core [™] i3-6100U processor (3 MB L3 cache, 2.3 GHz, DDR3L 1600	
	MHz, 15W), supporting Intel [®] 64 architecture, Intel [®] Smart Cache	
Memory 1, 3	, 4 Dual-channel DDR4 SDRAM support	4
ivicinory 1, 3	4 GB of onboard DDR4 system memory	4
	Up to 20 GB of DDR4 system memory	
Display	14.0" display with IPS (In-Plane Switching) technology, Full HD 1920 x	5
	1080, high-brightness Acer ComfyView TM LED-backlit TFT LCD	
	16:9 aspect ratio	
	Wide viewing angle up to 170 degrees	
	Mercury free, environment friendly	
	14" HD 1366 x 768 resolution Acer ComfyView [™] LED-backlit TFT LCD	
	16:9 aspect ratio	
	Ultra-slim design	
	Mercury free, environment friendly	
Graphics	NVIDIA® GeForce® 940M with 2 GB of dedicated DDR3 VRAM,	6
	supporting NVIDIA [®] CUDA TM , PhysX TM , PureVideo [®] HD technology,	
	HDMI [®] and Blu-Ray 3D [™] support, Hardware Video Decode Acceleration,	
	Microsoft [®] DirectX [®] 11.2/12, OpenGL [®] 4.4, OpenCL [™] 1.1	
Audio	Acer TrueHarmony technology for lower distortion, wider frequency	
	range, headphone-like audio and powerful sound	

	Acer Purified.Voice technology with two built-in microphones.	
	Features include far-field pickup, keystroke suppression, voice	
	tracking, adaptive beam forming, voice recognition enhancement	
	Compatible with Cortana with Voice	
	Certified for Skype for Business From heilt in standard and all and a second	
	Four built-in stereo speakers	
Storage	Card reader	
	 SD[™] / SDXC[™] card reader (accepts cards up to 128 GB capacity) 	
	Hard disk drive	
	500 GB 2.5-inch 5400 RPM self-pinning solid state hybrid hard drive	
	with 8 GB Flash memory	
	• 500 GB / 1 TB 2.5-inch 5400 RPM	7
	Solid state drive	
	• 128 / 256 GB, SATA 6 Gb/s, RAID 0	1, 8
Nebcam 1	Video conferencing	
	HD camera with:	
	• 1280 x 720 resolution	
	720p HD audio/video recording	
	High dynamic range imaging (HDR)	
	88 degree wide view angle	
Wireless and 1	WLAN	
networking	Intel® Dual Band Wireless-AC 8260, 802.11ac/a/b/g/n wireless LAN	
_	with Acer Nplify [™] , featuring MIMO technology	
	Bluetooth 4.2	
	• Intel vPro TM technology	
		0.46
	Acer InviLink™ Nplify™ 802.11a/b/g/n wireless LAN On a rates at 2.4 GHz and 5.6 Hz	9, 10
	Operates at 2.4 GHz and 5 GHz Operates at 2.4 GHz and 5 GHz	
	2x2 MIMO technology	
	• 802.11ad WiGig	
	Operates at 57 to 66 GHz	
	802.11a/b/g/n/ac wireless LAN	
	Operates at 2.4 GHz and 5 GHz	
	Dual-band 2x2 MIMO technology	
	Supports Bluetooth® 4.1	
	WWAN	
	• LTE: B1/B2/B3/B5/B7/B8/B13/B17/B20	
	• WCDMA / HSDPA / HSUPA / HSPA+: 850 / 900 / 1700 / 1900 / 2100	
	MHz	
	• GPRS / EDGE: 850 / 900 / 1800 / 1900 MHz	
	GPS/GLONASS: L1	
	LTE FDD: upload 50 Mbps, download 150 Mbps, @20 M BW CAT4	
	GPRS: upload 85.6 kbps, download 107 kbps	
	EDGE: upload 236.8 kbps, download 296 kpbs	
		1

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	WCDMA PS: upload 384 kbps, download 384 kbps	
	HSPA+: upload 5.76 Mbps, download 21.6 Mbps	
	WPAN	
	Bluetooth® 4.0	1
	LAN	
	Supports Intel® Ethernet Connection I219-LM Gigabit Ethernet	
Security	Acer ProShield Security Manager including:	
	BIOS Settings: BIOS Password, Boot Order, and Import/Export BIOS	
	Settings	
	Credential Manager: Fingerprint Registration	
	Pre-Boot Authentication: Fingerprint Management	
	Data Protection: File Encryption & Decryption, Personal Secure Drive	
	Data Removal: File Shredder	
	Trusted Platform Module (TPM) solution	
	Enhanced Acer DASP (Disk Anti-Shock Protection)	
	Acer Bio-Protection fingerprint solution, featuring Pre-Boot Authentication	1
	(PBA), computer protection	'
	BIOS user, supervisor, HDD passwords	
	Kensington lock slot	
Dimensions and 1, 11	Dimensions	
weight	• 328.7 (W) x 235.5 (D) x 21.2 (H) mm (12.94 x 9.27 x 0.83 inches)	
	Weight 1.7 kg (3.75 lbs.) with 3-cell battery pack, one hard drive	
Power adapter 1	, , , , , , , , , , , , , , , , , , , ,	
Power adapter 1 and battery	Power adapter	
and battery	3-pin 65 W HSF type AC adapter:	11
	• 95 (W) x 50 (D) x 25.4 (H) mm (3.74 x 1.96 x 1 inches)	
	• 216 g (0.47 lbs.) with 180 cm DC cable	
	Battery	
	54 Wh 4850 mAh 11.1 V 3-cell Li-polymer battery pack	12, 13
	(for models with HD Panel + HDD)	
	Battery life:	
	Up to 8 hours (based on MobileMark® 2014 test results)	
	ACPI 5.0 CPU power management standard: supports Standby and	
	Hibernation power-saving modes	
Input and control	Keyboard	
	86-/87-/91-key Acer FineTip backlit keyboard with international language	
	support	
	TouchPad	
	Multi-gesture touchpad, supporting two-finger scroll, pinch and rotate.	
	Control Keys	
	On a manufaction than	
	Communication key	
	Microphone mute key	

TravelMate P648-MG (Win10 HOL) Specifications (v5-0-4)			
Input and output	SD [™] Card reader		
	HDMI [®] port with HDCP support		
	Ethernet (RJ-45) port		
	External display (VGA) port		
	NFC (Near Field Communication)		
	DC-in jack for AC adapter		
	Three USB 3.0 ports with one featuring power-off USB charging		
	3.5 mm headphone/speaker jack, supporting headsets with built-in		
	microphone		
	USB Type-C [™] (Thunderbolt [™] 3) port: USB 3.1 Gen 2 (up to 10 Gbps) and		
	Thunderbolt devices, as well as any display		
	Acer ProDock II connector		
Sensors	Accelerometer (G-sensor)		
Windows Store 14	In-House		
Apps	Acer Explorer		
	Acer SMS Manager		
Windows 14	In-House		
Desktop Apps	Acer Control Center		
	Acer Portal		
	• abFiles		
	Accessory Store		
	Power Management		
	Quick Access		
	Lifestyle		
	Agoda		
	Booking.com		
	Yandex web link		
	Productivity		
	Avast SecureLine		
	Contact Pickup		
	Office 2013 Trial	15	
	PhantomPDF		
	Search		
	• Firefox		
	Yahoo search		
	Security		
	Acer ProShield		
	McAfee® Internet Security		
	Tools		
	App Explorer		
	Dashlane		
Options and	2 nin GE WILLET AC adoptor	16	
accessories	3-pin 65 W HSF AC adapter	'0	

TravelMate P64	8-MG (Win10 HOL) Specifications (v5-0-4)	
System	ENERGY STAR®	
compliance	Wi-Fi [®]	
	GS	
	EPEAT® Gold	
	HSF	
	Mobile PC 2002	
	ACPI 3.0	
Warranty	One-year International Travelers Warranty (ITW)	
Quality and	Temperature and humidity	
reliability tests	Hinge life	
	Weight and pressure	
	Acoustics	
	Spillage	
	Free drop	
	Shock and vibration	
	Electrostatic discharge immunity	
	Keyboard-switch life	
	MTBF (mean time between failures)	

- 1. Specifications vary depending on model.
- 2. 64-bit software is required to enjoy the advantages of 64-bit processing.
- 3. Shared system memory may be allocated to support graphics, depending on system memory size and other factors. Actual system memory available to the operating system will be reduced by any memory used by the graphics solution and resources required by the operating environment.
- 4. Memory speed may vary, depending on the CPU, chipset or memory fitted.
- 5. All brands and product names mentioned herein include trademarks of their respective companies and are used solely to describe or identify the products.
- 6. Resolution/refresh rates depend on display capability and color/depth settings.
- 7. 1 GB is 1 billion bytes, 1 TB is 1000 GB. Actual formatted capacity is less and may vary depending on preloaded materials and operating environment. Acer Recovery Management uses a portion of the stated hard disk capacity as dedicated backup space.
- 8. 1 GB is 1 billion bytes. Actual formatted capacity is less and may vary depending on preloaded materials and operating environment. Acer Recovery Management uses a portion of the stated hard disk capacity as dedicated backup space.
- 9. Actual throughput may vary depending on network conditions and environmental factors such as network traffic or overhead, building construction and access point settings.
- 10. Subject to availability.
- 11. Weight may vary depending on product configuration, vendor components, manufacturing variability, and selected options.
- 12. The battery will hold up to 80% of its original capacity after as many as 1000 recharges. A full recharge comprises a complete charge-and-discharge cycle, and does not always occur each time the notebook is plugged in to a power source, as several partial charges can add up to a full recharge.
- 13. The listed battery life is based on MobileMark 2007[®] productivity mode testing with wireless on. Details of MobileMark 2007[®] testing are available at www.bapco.com. Battery life rating is for comparison purposes

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- only. Actual battery life varies by model, configuration, applications, power management settings, operating conditions, and utilized features. A battery's maximum capacity decreases with time and use.
- 14. Bundled software may vary depending on hardware configuration, OS and regional availability.
- 15. Some models/configurations may activate to a 1 year subscription for Office 365 Personal, depending on the operating system installed.
- 16. HSF: Hazardous Substance Free

In a continuing effort to improve the quality of our products, information in this document is subject to change without notice. Images shown are only representations of some of the configurations available for this model. Availability may vary depending on region.

As a phenomenon known to thin-film transistors (TFTs), liquid crystal displays (LCDs) commonly exhibit a small number of discoloration dots, as so-called "non-conforming pixels." This phenomenon is a limitation of TFT LCD technology, not a product defect, and as such is not covered by Acer's warranty.

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Established in 1976, Acer is a *hardware* + *software* + *services* company dedicated to the research, design, marketing, sale, and support of innovative products that enhance people's lives. Acer's product offerings include PCs, displays, projectors, servers, tablets, smartphones, and wearables. The company is also developing cloud solutions to bring together the Internet of Things. Acer employs 7,000 people and ranks No. 4 for total PCs globally (IDC 2014). Revenues for 2014 reached US\$10.39 billion. Please visit www.acer.com for more information.





































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Appendix

v4-0-4 (Ver. 2)

Input and output

v5-0-4 (Ver. 3)

Input and output