



Acer TravelMate B5 14 (TMB514-31-G2-TCO) laptop - Intel Core 3 N355, 14" Full HD IPS, 8GB LPDDR5X, 128GB UFS, Windows 11 Pro Education

Brand : Acer

Product family: TravelMate

Product code: NX.BGQEK.004

Product name : Acer
TravelMate B5 14
(TMB514-31-G2-TCO) laptop -
Intel Core 3 N355, 14" Full HD
IPS, 8GB LPDDR5X, 128GB UFS,
Windows 11 Pro Education



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The Acer TravelMate B5 14 TMB514-31-G2-TCO is a rugged, education-ready notebook built for durability, reliability and all-day learning. Powered by the Intel Core 3 N355 processor, 8GB LPDDR5X memory and fast 128GB UFS flash storage, it delivers efficient performance for classroom tasks and cloud-based workloads. The 14-inch Full HD IPS display provides clear visuals, while MIL-STD 810H durability, anchored keyboard, OceanGlass touchpad and TCO/EPEAT Gold certifications make it ideal for sustainable, long-term deployment. With Wi-Fi 6E, Acer ProShield Plus security, and up to 12.5 hours battery life, the TravelMate B5 14 is designed for modern education environments.

Design		Ports & interfaces	
Colour name	Black	USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1
Product type *	Laptop	HDMI ports quantity *	1
Product colour *	Black	HDMI version	2.1
Form factor *	Clamshell	Line-in	✓
Market positioning	Educational	Combo headphone/mic port	✓
Country of origin	China	HDMI	✓
Rugged design	✓	HDCP	✓
Display		USB ports quantity	3
Display diagonal *	35.6 cm (14")	Line-out	✓
Display resolution *	1920 x 1080 pixels	Keyboard	
Touchscreen *	✗	Keyboard special features	Anchored Frame Keyboard
HD type	Full HD	Pointing device	Touchpad
Panel type	IPS	Numeric keypad *	✗
Display technology marketing name	ComfyView	Keyboard backlit	✗
Native aspect ratio	16:9	Keyboard language	UK English
Display surface	Matt	Copilot key	✓
Anti-glare screen	✓	Touchpad features	Moisture Resistant
Anti-microbial screen	✗	Software	
Display brightness	250 cd/m²	Operating system installed *	Windows 11 Pro Education
RGB colour space	NTSC	Bundled software	Windows Desktop Apps In-House: Acer Control Center Acer Product Registration Acer QuickPanel Quick Access TravelMate Sense Security: Acer User Sensing
Colour gamut	45%		
Maximum refresh rate	60 Hz	Battery	
Contrast ratio (typical)	700:1	Battery technology	Lithium-Ion (Li-Ion)
Processor		Battery capacity *	53 Wh
Processor manufacturer *	Intel	Battery life (max)	12.5 h
Processor family *	Intel Core 3	Fast charging	✓
Processor model *	N355		
Processor cores	8		
Processor threads	8		
Processor boost frequency	3.9 GHz		
Processor frequency *	1.9 GHz		

Processor		Power	
Processor cache	6 MB	AC adapter power	65 W
Processor operating modes	64-bit	USB Type-C charging port *	✓
Neural processor unit (NPU)		USB Type-C required charging power (min) *	65 W
Copilot+ PC	✗	USB Type-C required charging power (max) *	65 W
Memory		USB Power Delivery (USB PD)	✓
Internal memory *	8 GB	Security	
Internal memory type	LPDDR5x-SDRAM	Cable lock slot	✓
Memory clock speed	6400 MHz	Cable lock slot type	Kensington
Maximum internal memory *	8 GB	Fingerprint reader	✗
Storage		Trusted Platform Module (TPM)	✓
Total storage capacity *	128 GB	Password protection	✓
Storage media *	UFS	Password protection type	Supervisor, User
Optical drive type *	✗	Weight & dimensions	
Graphics		Width	329.5 mm
On-board graphics card *	✓	Depth	231.8 mm
On-board GPU manufacturer	Intel	Height	24.4 mm
Audio		Height (front)	2.15 cm
Built-in speaker(s)	✓	Height (rear)	2.44 cm
Number of built-in speakers	2	Weight *	1.65 kg
Built-in microphone	✓	Packaging data	
Number of microphones	2	Package width	65 mm
Camera		Package depth	457 mm
Front camera	✓	Package height	288 mm
Front camera resolution	1280 x 720 pixels	Package weight	2.55 kg
Front camera HD type	HD	Packaging content	
Video capturing speed	30 fps	AC adapter included *	✓
Network		Keyboard included	✓
Wi-Fi	✓	Packaging content	TravelMate B5 14 TMB514-31-G2-TCO-3688 Notebook Lithium Ion (Li-Ion) Battery Power Adapter Power Cord
Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)	Other features	
Wi-Fi standards	802.11a, 802.11b, 802.11ad, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax), Wi-Fi 6E (802.11ax)	Kensington lock slot Discrete Trusted Platform Module (TPM) solution BIOS Passwords: User Supervisor Acer ProShield Plus security manager includes: Data Protection: File & Folder Encryption and Decryption, Personal Security Drive Data Removal: File Shredding Security Alert: Invalid Access Alert, Security Report	
Mobile network connection *	✗		
WLAN controller model	Intel Wi-Fi 6E AX211		
WLAN controller manufacturer	Intel		
Ethernet LAN	✗	Security features	
Bluetooth	✓	Chipset	Intel®
Ports & interfaces		Manufacturer	Acer, Inc
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2		

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