



Acer Nitro 16

(AN16-51-58N6)



- Processor: Intel® Core™ i5-13500H
- Display: Acer ComfyView™ WUXGA 165Hz IPS display (non-glare)
- Memory: 16 GB DDR5 RAM
- Mass storage: 512 GB PCIe Gen4 SSD
- Graphics card: NVIDIA® GeForce RTX™ 4050
- Operating system: Windows 11 Home (64 Bit)



165Hz





AN16-51-58N6

SPECIFICATIONS



Ordering Information

Series	Acer Nitro 16
Model name	AN16-51-58N6
Part number	NH.QJMEG.006
EAN	4711121728570
Short description	Acer ComfyView™ WUXGA 165Hz IPS display (non-glare) / Intel® Core™ i5-13500H / 16 GB DDR5 RAM / 512 GB PCIe Gen4 SSD / NVIDIA® GeForce RTX™ 4050 / Windows 11 Home (64 Bit) / Black

Operating System

Operating System	Windows 11 Home (64 Bit)
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Housing

Housing / Color	Black
Component door	-
Dimensions	360.1 x 279.9 x 27.9 mm (W x D x H)
Weight	2.7 kg
Passively cooled (fanless)	-

Display

Display size	16 Inch (40.64 cm)
Display type	Acer ComfyView™ WUXGA 165Hz IPS display with LED backlight and 100% sRGB (non-glare)
Display resolution in pixel	1920 x 1200
Aspect ratio	16:10

Processor and chipset

Processor	Intel® Core™ i5-13500H Processor
Clock frequency	2.6 GHz (Up to 4.7 GHz with Intel® Turbo Boost Technology)
Cache	18 MB Intel® Smart Cache
Processing cores / threads	4 Performance-cores + 8 Efficient-cores / 16 Threads
Chipset	Integrated SOC

Storage and drives

Memory	16 GB DDR5 RAM
Memory configuration	2 x 8 GB DDR5 RAM
Maximum RAM	Up to 32 GB DDR5 RAM (2x 16 GB soDIMM)
Mass storage	512 GB M.2 PCIe NVMe SSD Opal
Optical drive	-

Graphics card

Graphics card	NVIDIA® GeForce RTX™ 4050
Graphics card memory dedicated	6 GB GDDR6 VRAM
Maximum Graphic Power	140
Maximum Boost Frequency	2355

Connections

LAN	Killer™ Ethernet E2600
Wireless LAN	Killer™ Wi-Fi 6 AX1650i
Wireless WAN / SIM-Card	-
Wireless Gigabit	-
Bluetooth	Bluetooth® 5.1
NFC	-

I/O ports

HDMI	1x HDMI® 2.1 with HDCP support
VGA	-
Displayport	via USB Type-C
Thunderbolt	1x Thunderbolt™ 4 (via USB Type-C)
USB 3.2	5x (1x Type-A Gen 1; 2x Type-A Gen 2 (1x with Power-off USB Charging); 2x Type-C Gen 2)
USB 3.1	-
USB 3.0	-
USB 2.0	1x Type A
USB 4.0	-
Ethernet (RJ-45)	Yes
Cardreader	MicroSD Card reader
Audio port	1x speaker/headphone/line-out (supports headsets with built-in microphone 3.5mm port)
Docking port	-

Input

Keyboard	Acer FineTip RGB keyboard (103-/104-/107- keys)
Keyboard layout	German (QWERTZ)
Backlit keyboard	Yes (4 zones RGB)
Touchpad	Multi-Gesture Touchpad (Microsoft Precision Touchpad Certification)

Security

Fingerprint sensor	-
Kensington Lock	Yes
Security software	-



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Audio and video

Audio	DTS: X [®] Ultra audio, Acer Purified, Acer TrueHarmony, compatible with Cortana with Voice
Speaker	Two built-in stereo speakers
Microphone	dual built-in microphones
Webcam	HD Webcam

Battery and power adapter

Battery	Li-Ion battery (4 cells / 90 Wh)
Battery lifetime	Up to 8 hours (based on MobileMark [®] 2018 test results)
Power adapter	230W AC power adapter
Battery built in	-

Software

Office	1 month trial for new Microsoft 365 customers. Credit card required
Other software	NitroSense, Acer Care Center, Planet9

Special features

Special features	Cooling technologies: Dual Fan Cooling, Liquid Metal
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Logistics

Quantity per layer	20
Quantity per europallet	60
Quantity per tower	100
Quantity per container	1100
Carton dimensions / weight	543.0 x 341.0 x 80.0 mm (W x D x H) / 4 Kg

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