

## Acer Nitro 5 5 AN515-58 Gaming Laptop - Intel Core i7-12650H, 16GB, 512GB SSD, NVIDIA GeForce RTX 4050 6G, 15.6" FHD IPS 144Hz, Windows 11, Black

Brand : Acer Product family: Nitro Product code: NH.QLZEK.00F

Product name: Acer Nitro 5 AN515-58 Gaming Laptop - Intel Core i7-12650H, 16GB, 512GB SSD, NVIDIA GeForce RTX 4050 6G, 15.6" FHD IPS 144Hz, Windows 11, Black

- Windows 11 Home 64-bit
- Intel Core i7-12650H (24MB Cache)
- 39.6 cm (15.6") Full HD 1920 x 1080 IPS, NVIDIA GeForce RTX 4050 (6GB GDDR6)
- 16GB DDR5-SDRAM & 512GB SSD

Intel Core i7-12650H (24MB Cache), 16GB DDR5-SDRAM, 512GB SSD, 39.6 cm (15.6") Full HD 1920 x 1080 IPS, Intel UHD Graphics, NVIDIA GeForce RTX 4050 (6GB GDDR6), LAN, WLAN, Webcam, Windows 11 Home 64-bit

Acer Nitro 5 AN515-58 Gaming Laptop - Intel Core i7-12650H, 16GB, 512GB SSD, NVIDIA GeForce RTX 4050 6G, 15.6" FHD IPS 144Hz, Windows 11, Black. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-12650H. Display diagonal: 39.6 cm (15.6"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 16 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 512 GB, Storage media: SSD. On-board graphics card model: Intel® UHD Graphics, Discrete graphics card model: NVIDIA GeForce RTX 4050. Operating system installed: Windows 11 Home. Product colour: Black







Design         Camera           Product type *         Laptop         Front camera         ✓           Product colour *         Black         Front camera resolution         1280 x 720 pixels           From factor *         Clamshell         Front camera HD type         HD           Kourty of origin         China         Network         Wi-Fi 6 (802.11a, x)           Display         39.6 cm (15.6")         Wi-Fi standard *         Wi-Fi 6 (802.11a, x)           Display diagonal *         39.5 cm (15.6")         Wi-Fi standards         Wi-Fi 6 (802.11a, x)           Display resolution *         1920 x 1080 pixels         Mobile network connection *         X           Touchscreen *         Y         Mobile network connection *         X           HD type         Froll HD         WLAN controller model         Killer Wi-Fi 6 AX1650i           Panel type         PS         WLAN controller manufacturer         Killer Wi-Fi 6 AX1650i           LED backlight         ✓         Ethernet LAN         Killer Wi-Fi 6 AX1650i           Native aspect ratio         16:9         Ethernet LAN         MIMO         ✓           Display brightness         250 cd/m²         Bluetooth wersion         5.1           Maximum refresh rate         Intel Wi-Fi 2650H         MIMO </th <th></th> <th></th> <th></th> <th></th>				
Product Colour*         Black         Front camera resolution         1280 x 720 pixels           Form factor*         Clamshell         Front camera HD type         HD           Market positioning         Gaming         Network           Country of origin         Top Wi-Fi standard*         Wi-Fi 6 (802.11ax)           Display         802.11a, 802.11b, 802.11g, Wi           Display diagonal*         39.6 cm (15.6")         Wi-Fi standards         802.11a, 802.11b, 802.11g, Wi           Display resolution*         1920 x 1080 pixels         Mobile network connection*         X           Touchscreen*         X         Antenna type         2x2           HD type         Full HD         WLAN controller model         Killer Wi-Fi 6 AX1650i           Panel type         IPS         WLAN controller manufacturer         Killer Wi-Fi 6 AX1650i           LED backlight         ✓         Ethernet LAN         ✓           Native aspect ratio         16:9         Ethernet LAN data rates         10.100,1000 Mbit/s           Display brightnes         250 cd/m²         Bluetooth         ✓           Maximum refresh rate         Intel         MIMO         ✓           Processor         Intel         MIMO type         Multi User MIMO           Processor family*	Design		Camera	
Country of origin         China         New Work           Display         Top Wi-Fi standard*         Wi-Fi 6 (802.11ax)           Display diagonal*         39.6 cm (15.6°)         Wi-Fi standards         802.11a, 802.11b, 802.11g, Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.1	Product colour * Form factor *	Black Clamshell	Front camera resolution Front camera HD type	1280 x 720 pixels
Display         Top Wi-Fi standard *         Wi-Fi 6 (802.11ax)         802.11a, 802.11b, 802.11b, Wi-Fi 6 (802.11b, Wi-Fi 6)           Display diagonal *         39.6 cm (15.6")         Wi-Fi standards         (802.11b, Wi-Fi 5 (802.11ac), W	, ,	•	Network	
Display resolution * 1920 x 1080 pixels	Display		·	802.11a, 802.11b, 802.11g, Wi-Fi 4
ProcessorProcessor manufacturer *IntelMIMO typeMulti User MIMOProcessor family *Intel® Core™ i7Ports & interfacesProcessor generation12th gen Intel® Core™ i7USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *1Processor model *i7-12650HUSB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *2Processor threads16USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity2Processor boost frequency4.7 GHzUSB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity1Performance cores6Ethernet LAN (RJ-45) ports1Efficient cores4HDMI ports quantity *1Performance-core Max Turbo Frequency4.7 GHzHDMI ports quantity *1Frequency4.7 GHzHDMI version2.1Efficient-core Max Turbo Frequency3.5 GHzThunderbolt 4 ports quantity1Processor cache24 MBIntel® Thunderbolt 4✓Processor cache type5mart CacheHeadphone outputs1	Display resolution * Touchscreen * HD type Panel type LED backlight Native aspect ratio Display brightness	1920 x 1080 pixels  X Full HD IPS  √ 16:9 250 cd/m²	Mobile network connection * Antenna type WLAN controller model WLAN controller manufacturer Ethernet LAN Ethernet LAN data rates Bluetooth	6 (802.11ax)  2x2  Killer Wi-Fi 6 AX1650i  Killer  10,100,1000 Mbit/s
Processor family * Intel® Core™ i7 Processor generation Processor model * i7-12650H Processor cores Processor threads Processor threads Processor boost frequency Performance cores Efficient cores Performance-core Max Turbo Frequency Frequency Efficient-core Max Turbo Frequency Processor cache Processor cache Processor cache Processor cache Processor denativ Intel® Core™ i7 Ports & interfaces Processor (3.1 Gen 1) Type-A ports quantity *  USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity Push 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity Push 4.7 GHz Processor denativ Processor denativ HDMI ports quantity *  HDMI ports quantity *  HDMI version Processor quantity Processor cache Processor sache Processor cache Pro	Processor			
Processor generation Processor model * Processor cores 10 USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * Processor threads Processor threads 16 Processor boost frequency Performance cores 6 Efficient cores 4 Performance-core Max Turbo Frequency Performance-core Max Turbo Frequency Frequency Efficient-core Max Turbo Frequency Processor cache Processor generation USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity  LSB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity  PSB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity  1 Processor guantity Processor guantity  HDMI ports quantity * HDMI version Phomic Thunderbolt 4 ports quantity  1 Processor cache Phomic Thunderbolt 4 ports quantity Processor cache Headphone outputs  1	Processor manufacturer *	Intel	MIMO type	Multi User MIMO
Processor model * i7-12650H  Processor cores 10 USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * 2  Processor threads 16 USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	•		Ports & interfaces	
Processor threads Processor boost frequency Performance cores Efficient cores Performance-core Max Turbo Frequency Pefficient-core Max Turbo Frequency Processor cache Processor threads Ports quantity PSB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity Phosp 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity Phosp 4.7 GHz Phosp 5.1 Gen 2) Type-A Ports quantity Processor threads Processor threads Ports quantity Processor threads Processor threads Ports quantity Phosp 4.7 GHz Phosp 3.5 GHz Phosp 4.7 GHz Phosp 4.7 GHz Phosp 4.7 GHz Phosp 5.1 Gen 2) Type-A Phosp 6.2 Gen 2 (3.1 Gen 2) Type-C Processor threads Phosp 4.7 GHz Phosp 4.7 GHz Phosp 4.7 GHz Phosp 6.2 Gen 2 (3.1 Gen 2) Type-C Ports quantity Phosp 6.2 Gen 2 (3.1 Gen 2) Type-C Ports quantity Phosp 6.2 Gen 2 (3.1 Gen 2) Type-C Processor threads Phosp 6.2 Gen 2 (3.1 Gen 2) Type-C Processor threads Phosp 6.2 Gen 2 (3.1 Gen 2) Type-C Processor threads Phosp 6.2 Gen 2 (3.1 Gen 2) Type-C Processor threads Phosp 6.2 Gen 2 (3.1 Gen 2) Type-C Processor threads Phosp 6.2 Gen 2 (3.1 Gen 2) Type-C Processor threads Phosp 6.2 Gen 2 (3.1 Gen 2) Type-C Processor threads Phosp 6.2 Gen 2 (3.1 Gen 2) Type-C Processor threads Phosp 6.2 Gen 2 (3.1 Gen 2) Type-C Processor threads Phosp 6.2 Gen 2 (3.1 Gen 2) Type-C Processor threads Phosp 6.2 Gen 2 (3.1 Gen 2) Type-C Processor threads Phosp 6.2 Gen 2 (3.1 Gen 2) Type-C Processor threads Phosp 6.2 Gen 2 (3.1 Gen 2) Type-C Processor threads Phosp 6.2 Gen 2 (3.1 Gen 2) Type-C Processor threads Phosp 6.2 Gen 2 (3.1 Gen 2) Type-C Processor threads Phosp 6.2 Gen 2 (3.1 Gen 2) Type-C Processor threads Phosp 6.2 Gen 2 (3.1 Gen 2) Type-C Processor threads Phosp 6.2 Gen 2 (3.1 Gen 2) Type-C Phosp 6.2 Gen 2 (3.1 Gen 2)	Processor model *	i7-12650H		1
Performance cores 6 ports quantity 1  Efficient cores 4 Ethernet LAN (RJ-45) ports 1  Performance-core Max Turbo Frequency 4.7 GHz HDMI version 2.1  Efficient-core Max Turbo Frequency 3.5 GHz Thunderbolt 4 ports quantity 1  Processor cache 24 MB Intel® Thunderbolt 4  Processor cache type Smart Cache Headphone outputs 1	Processor threads	16	ports quantity	2
Efficient cores 4 Performance-core Max Turbo Frequency 4.7 GHz HDMI ports quantity * 1 HDMI version 2.1 Efficient-core Max Turbo Frequency 5.5 GHz Thunderbolt 4 ports quantity 1 Processor cache Processor cache type Smart Cache Headphone outputs 1	· •			1
Frequency 4.7 GHz HDMI version 2.1 Efficient-core Max Turbo Frequency 3.5 GHz Thunderbolt 4 ports quantity 1 Processor cache 24 MB Intel® Thunderbolt 4 Processor cache type Smart Cache Headphone outputs 1		•	Ethernet LAN (RJ-45) ports	1
Processor cache 24 MB Intel® Thunderbolt 4 ✓ Processor cache type Smart Cache Headphone outputs 1	Performance-core Max Turbo	·	' ' '	_
Processor cache type Smart Cache Headphone outputs 1	Efficient-core Max Turbo Frequency	3.5 GHz	Thunderbolt 4 ports quantity	1
	Processor cache	24 MB	Intel® Thunderbolt 4	✓
Processor base power 45 W Microphone in	Processor cache type	Smart Cache	Headphone outputs	1
	Processor base power	45 W	Microphone in	✓

Processor		Ports & interfaces	
Maximum turbo power	115 W	Combo headphone/mic port	✓
Memory		USB Type-C DisplayPort Alternate Mode	✓
Internal memory *	16 GB	USB Power Delivery	✓
Internal memory type	DDR5-SDRAM	USB Sleep-and-Charge	✓
Maximum internal memory *  Memory data transfer rate	32 GB 4800 MT/s	USB Sleep-and-Charge ports	1
·	4000 M1/3	Keyboard	
Storage		Pointing device	Touchpad
Total storage capacity *	512 GB SSD	Keyboard layout	QWERTY
Storage media * Total SSDs capacity	512 GB	Keyboard language	UK English
Number of SSDs installed	1	Numeric keypad *	<b>√</b>
SSD capacity	512 GB	Keyboard backlit	<b>V</b>
SSD interface	PCI Express	Keyboard backlit colour	RGB
NVMe	✓	Keyboard backlit zone	4-zone RGB
SSD form factor	M.2	Software	
Optical drive type *	×	Operating system architecture	64-bit
Graphics		Operating system installed *	Windows 11 Home
Discrete GPU manufacturer	NVIDIA	Battery	
Discrete graphics card model *	NVIDIA GeForce RTX 4050	Battery technology	Lithium-lon (Li-lon)
Discrete graphics card memory	6 GB	Number of battery cells	4
Discrete graphics memory type	GDDR6	Battery capacity *	57.5 Wh
On-board graphics card *	✓	Battery life (max)	5 h
On-board GPU manufacturer	Intel	Continuous video playback time	5 h
Discrete graphics card *	✓	Browsing time (Wi-Fi)	5 h
On-board graphics card family	Intel® UHD Graphics	Weight & dimensions	
On-board graphics card model *	Intel® UHD Graphics	Width	360.4 mm
NVIDIA G-SYNC CUDA	<b>√</b>	Depth	271.1 mm
CUDA cores	<b>√</b> 2560	Height	25.9 mm
	2300	Weight *	2.5 kg
Audio	DTC VIIII	Packaging data	
Audio system	DTS:X Ultra	Package width	80 mm
Built-in microphone	✓	Package depth	543 mm
		Package height	341 mm
		Package weight	4.05 kg
		Packaging content	
		Cables included	AC



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