

**Alienware 13 R3 Intel® Core™ i3 i7-7700HQ 33.8 cm (13.3") Quad HD 32 GB DDR4-SDRAM 256 GB SSD NVIDIA® GeForce® GTX 1060 Windows 10 Home**

Brand: Alienware

Model: AW-13R3-HID63-AUK3

Series: 13 R3



Alienware 13 R3. Processor: Intel® Core™ i3, i7-7700HQ, Frequency: 2.8 GHz. Display: 33.8 cm (13.3"), HD type: Quad HD, Resolution: 2560 x 1440 pixels, Panel: IPS. Memory: 32 GB, Type: DDR4-SDRAM. Storage: 256 GB, Type: SSD. Operating system: Windows 10 Home. Color: Black, Silver



Design		Keyboard	
Product type *	Laptop	Windows keys	✓
Product colour *	Black, Silver	<b>Software</b>	
Form factor *	Clamshell	Operating system architecture	64-bit
Market positioning	Gaming	Drivers included	✓
Display		Operating system installed *	Windows 10 Home
Display diagonal *	33.8 cm (13.3")	<b>Processor special features</b>	
Display resolution *	2560 x 1440 pixels	Intel® Wireless Display (Intel® WiDi)	✓
Touchscreen *	✓	Intel® My WiFi Technology (Intel® MWT)	✓
HD type	Quad HD	Intel® Smart Response Technology	✓
LED backlight	✓	Intel® Identity Protection Technology (Intel® IPT)	✓
Native aspect ratio	16:9	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Dual-screen	✗	Intel® Turbo Boost Technology	2.0
Processor		Enhanced Intel SpeedStep Technology	✓
Processor manufacturer *	Intel	Thunderbolt™ 3 Technology	✓
Processor family *	Intel® Core™ i7	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor generation	7th gen Intel® Core™ i7	Intel Clear Video Technology	✓
Processor model *	i7-7700HQ	Intel® InTru™ 3D Technology	✓
Processor cores	4	Intel® Quick Sync Video Technology	✓
Processor threads	8	Intel Flex Memory Access	✓
Processor boost frequency	3.8 GHz	Intel® Smart Cache	✓
Processor frequency *	2.8 GHz	Intel® AES New Instructions (Intel® AES-NI)	✓
System bus rate	8 GT/s		
Processor cache	6 MB		
Processor cache type	Smart Cache		
Processor lithography	14 nm		
Processor operating modes	64-bit		
Processor series	Intel Core i7-7700 Mobile Series		
Processor codename	Kaby Lake		

Processor		Processor special features	
Bus type	DMI3	Intel Trusted Execution Technology	✗
Thermal Design Power (TDP)	45 W	Intel Enhanced Halt State	✓
Configurable TDP-down	35 W	Intel VT-x with Extended Page Tables (EPT)	✓
Tjunction	100 °C	Intel® Secure Key	✓
Maximum number of PCI Express lanes	16	Intel TSX-NI	✗
PCI Express slots version	3.0	Intel Stable Image Platform Program (SIPP)	✗
PCI Express configurations	1x16, 1x8, 2x4, 2x8	Intel® OS Guard	✓
ECC supported by processor	✗	Intel Software Guard Extensions (Intel SGX)	✓
Memory		Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Internal memory *	32 GB	Intel 64	✓
Internal memory type	DDR4-SDRAM	Execute Disable Bit	✓
Memory form factor	SO-DIMM	Idle States	✓
Memory slots	2x SO-DIMM	Thermal Monitoring Technologies	✓
Maximum internal memory *	32 GB	Processor package size	42 x 28 mm
Storage		Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Total storage capacity *	256 GB	CPU configuration (max)	1
Storage media *	SSD	Embedded options available	✗
Number of SSDs installed	1	Graphics & IMC lithography	14 nm
SSD capacity	256 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Optical drive type *	✗	Intel Identity Protection Technology version	1.00
Card reader integrated	✗	Intel Smart Response Technology version	1.00
Graphics		Intel Stable Image Platform Program (SIPP) version	0.00
Discrete graphics card model *	NVIDIA® GeForce® GTX 1060	Intel Secure Key Technology version	1.00
Discrete graphics card memory	6 GB	Intel Small Business Advantage (SBA) version	1.00
Discrete graphics memory type	GDDR5	Intel TSX-NI version	0.00
On-board graphics card *	✓	Intel Virtualization Technology (VT-x)	✓
Discrete graphics card *	✓	Processor ARK ID	97185
On-board graphics card model *	Intel® HD Graphics 630	Conflict-Free processor	✓
On-board graphics card base frequency	350 MHz	Battery	
On-board graphics card dynamic frequency (max)	1100 MHz	Battery technology	Lithium-Ion (Li-Ion)
Maximum on-board graphics card memory	64 GB	Number of battery cells	4
On-board graphics card DirectX version	12.0	Battery capacity *	76 Wh
On-board graphics card OpenGL version	4.4	Battery voltage	15.2 V
On-board graphics card ID	0x591B	Power	
Number of discrete graphics cards installed	1	AC adapter frequency	50 - 60 Hz
NVIDIA G-SYNC	✓	AC adapter input voltage	100 - 240 V
NVIDIA GameWorks VR	✓	AC adapter output voltage	19.5 V
CUDA	✓	DC-in jack	✓
CUDA cores	1280	Security	
Audio		Cable lock slot	✓
Audio chip	Realtek ALC3266	Cable lock slot type	Noble
Speaker power	4 W	Password protection	✓
Built-in microphone	✓	Operational conditions	
Camera		Operating temperature (T-T)	5 - 35 °C
Front camera	✓	Storage temperature (T-T)	-40 - 65 °C
Network		Operating relative humidity (H-H)	10 - 90%
Wi-Fi	✓	Storage relative humidity (H-H)	0 - 95%
Ethernet LAN	✓	Operating altitude	-15.2 - 3048 m
Ethernet LAN data rates	10,100,1000 Mbit/s		
Bluetooth	✓		

Ports & interfaces		Operational conditions	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Non-operating altitude	-15.2 - 10668 m
USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1	Operating shock	40 G
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1	Non-operating shock	105 G
Ethernet LAN (RJ-45) ports	1	Operating vibration	0.26 G
HDMI ports quantity *	1	Non-operating vibration	1.37 G
HDMI version	2.0	Weight & dimensions	
Mini DisplayPorts quantity	1	Width	330 mm
DVI port	✗	Depth	269 mm
Microphone in	✓	Height	24 mm
Combo headphone/mic port	✓	Weight *	2.63 kg
Docking connector	✗	Packaging content	
Alienware graphics amplifier port	✓	AC adapter included *	✓
USB Sleep-and-Charge	✓	Manual	✓
USB Sleep-and-Charge ports	1	Warranty card	✓
		Power cord included	✓
Performance		Other features	
Motherboard chipset	Intel® HM170	Maximum internal memory (64-bit)	32 GB
Keyboard			
Pointing device	Touchpad		
Numeric keypad *	✗		
Keyboard backlit	✓		

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