



ASUS ProArt StudioBook 16 OLED H7600ZW-L2027W i9-12900H Notebook 40.6 cm (16") Intel® Core™ i9 32 GB DDR5-SDRAM 2000 GB SSD NVIDIA GeForce RTX 3070 Ti Wi-Fi 6 (802.11ax) Windows 11 Home Black

Brand : ASUS

Product family: ProArt StudioBook

Product code: 90NB0XJ1-M00160

Product name : H7600ZW-L2027W



- Windows 11 Home 64-bit
- Intel Core i9-12900H (24MB Cache)
- 40.6 cm (16") 3840 x 2400 OLED, NVIDIA GeForce RTX 3070 Ti (8GB GDDR6)
- 32GB DDR5-SDRAM (2 x 16) & 2000GB SSD
Intel Core i9-12900H (24MB Cache), 32GB DDR5-SDRAM, 2000GB SSD, 40.6 cm (16") 3840 x 2400 OLED, Intel Iris Xe Graphics, NVIDIA GeForce RTX 3070 Ti (8GB GDDR6), LAN, WLAN, Webcam, Windows 11 Home 64-bit
ASUS ProArt StudioBook 16 OLED H7600ZW-L2027W. Product type: Notebook, Form factor: Clamshell. Processor family: Intel® Core™ i9, Processor model: i9-12900H. Display diagonal: 40.6 cm (16"), Display resolution: 3840 x 2400 pixels. Internal memory: 32 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 2000 GB, Storage media: SSD. On-board graphics card model: Intel Iris Xe Graphics, Discrete graphics card model: NVIDIA GeForce RTX 3070 Ti. Operating system installed: Windows 11 Home. Product colour: Black. Weight: 2.4 kg



Design		Network	
Colour name	Mineral Black	Top Wi-Fi standard *	Wi-Fi 6 (802.11ax)
Product type *	Notebook	Wi-Fi standards	Wi-Fi 6 (802.11ax)
Product colour *	Black	Mobile network connection *	✗
Form factor *	Clamshell	Antenna type	2x2
Housing material	Aluminium, Magnesium	Ethernet LAN	✓
Market positioning	Performance	Ethernet LAN data rates	10,1000,100 Mbit/s
Display		Bluetooth	✓
Display diagonal *	40.6 cm (16")	Bluetooth version	5.0
Display resolution *	3840 x 2400 pixels	Ports & interfaces	
Touchscreen *	✗	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
Panel type	OLED	Ethernet LAN (RJ-45) ports	1
Native aspect ratio	16:10	HDMI ports quantity *	1
Display surface	Gloss	HDMI version	2.1
Maximum display brightness (HDR)	600 cd/m²	Thunderbolt 4 ports quantity	2
RGB colour space	DCI-P3	Intel® Thunderbolt 4	✓
Colour gamut	100%	Combo headphone/mic port	✓
Display response rise/fall	0.2 ms	Charging port type	DC-in jack
Maximum refresh rate	60 Hz	Power adapter barrel connector	6.0 mm
Display number of colours	1.073 billion colours	USB Type-C DisplayPort Alternate Mode	✓
Contrast ratio (typical)	1000000:1	USB Power Delivery	✓
High Dynamic Range (HDR) supported	✓	Performance	
High Dynamic Range (HDR) technology	HDR True Black 600	Virtual Reality (VR) ready	✓
Processor		Keyboard	
Processor manufacturer *	Intel	Pointing device	Touchpad
Processor generation	12th gen Intel® Core™ i9	Numeric keypad *	✓
Processor model *	i9-12900H	Keyboard backlit	✓
Processor family *	Intel® Core™ i9		

Processor		Software	
Processor boost frequency	5 GHz	Operating system architecture	64-bit
Processor cores	14	Operating system installed *	Windows 11 Home
Processor cache	24 MB	Processor special features	
Configurable TDP-down	35 W	Intel Flex Memory Access	✓
Memory		Intel Trusted Execution Technology	✓
Internal memory *	32 GB	Intel VT-x with Extended Page Tables (EPT)	✓
Internal memory type	DDR5-SDRAM	Intel Stable Image Platform Program (SIPP)	✓
Memory form factor	SO-DIMM	Execute Disable Bit	✓
Memory layout (slots x size)	2 x 16 GB	CPU configuration (max)	1
Memory slots	2x SO-DIMM	Embedded options available	✗
Maximum internal memory *	64 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Storage		Intel Virtualization Technology (VT-x)	✓
Total storage capacity *	2000 GB	Battery	
Storage media *	SSD	Battery technology	Lithium-Ion (Li-Ion)
Total SSDs capacity	2000 GB	Number of battery cells	4
Number of SSDs installed	1	Battery capacity *	90 Wh
SSD capacity	2000 GB	Power	
SSD interface	PCI Express 4.0	AC adapter power	240 W
NVMe	✓	AC adapter frequency	50 - 60 Hz
SSD form factor	M.2	AC adapter input voltage	100 - 240 V
Optical drive type *	✗	AC adapter output current	12 A
Card reader integrated	✓	AC adapter output voltage	20 V
Compatible memory cards	SD	Security	
Graphics		Fingerprint reader	✓
Discrete GPU manufacturer	NVIDIA	Windows Hello	✓
Discrete graphics card model *	NVIDIA GeForce RTX 3070 Ti	Trusted Platform Module (TPM)	✓
On-board graphics card *	✓	Trusted Platform Module (TPM) version	2.0
Discrete graphics card *	✓	Password protection	✓
On-board graphics card model *	Intel Iris Xe Graphics	Password protection type	BIOS, HDD, User
Discrete graphics card memory	8 GB	Weight & dimensions	
Discrete graphics memory type	GDDR6	Width	362 mm
Audio		Depth	264 mm
Audio system	SonicMaster	Height (front)	1.99 cm
Speakers manufacturer	Harman Kardon	Height (rear)	2.14 cm
Built-in microphone	✓	Weight *	2.4 kg
Camera			
Front camera	✓		
Front camera HD type	HD		
Infrared (IR) camera	✓		
Privacy camera	✓		
Privacy type	Privacy shutter		

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