

**ASUS ROG Flow Z13 GZ301ZE-LC178W Intel® Core™ i9 i9-12900H
Hybrid (2-in-1) 34 cm (13.4") Touchscreen WQUXGA 16 GB
LPDDR5-SDRAM 1 TB SSD NVIDIA GeForce RTX 3050 Ti Wi-Fi 6E
(802.11ax) Windows 11 Home Black**

Brand : ASUS

Product family: ROG

Article code: 90NR07X1-M00CM0

Product name : GZ301ZE-LC178W



ASUS ROG Flow Z13 GZ301ZE-LC178W. Product type: Hybrid (2-in-1), Form factor: Convertible (Detachable). Processor family: Intel® Core™ i9, Processor model: i9-12900H, Processor frequency: 2,5 GHz. Display diagonal: 34 cm (13.4"), HD type: WQUXGA, Display resolution: 3840 x 2400 pixels, Touchscreen. Internal memory: 16 GB, Internal memory type: LPDDR5-SDRAM. Total storage capacity: 1 TB, Storage media: SSD. Operating system installed: Windows 11 Home. Product color: Black



Design		Camera	
Color name	Black	Rear camera resolution (numeric)	8 MP
Product type *	Hybrid (2-in-1)	Network	
Product color *	Black	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Form factor *	Convertible (Detachable)	Wi-Fi standards	Wi-Fi 6E (802.11ax)
Market positioning	Gaming	Mobile network connection *	✗
Display		Antenna type	2x2
Display diagonal *	34 cm (13.4")	Ethernet LAN	✗
Display resolution *	3840 x 2400 pixels	Bluetooth	✓
Touchscreen *	✓	Bluetooth version	5.2
HD type	WQUXGA	Ports & interfaces	
Panel type	IPS	USB 2.0 ports quantity *	1
Native aspect ratio	16:10	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Display surface	Gloss	Thunderbolt 4 ports quantity	1
RGB color space	DCI-P3	Intel® Thunderbolt 4	✓
Color gamut	85%	Combo headphone/mic port	✓
Display response rise/fall	30 ms	USB Type-C DisplayPort Alternate Mode	✓
Maximum refresh rate	60 Hz	ROG XG Mobile port	✓
High Dynamic Range (HDR) supported	✓	Keyboard	
High Dynamic Range (HDR) technology	Dolby Vision	Pointing device	Touchpad
Processor		Numeric keypad *	✗
Processor manufacturer *	Intel	Keyboard backlit	✓
Processor family *	Intel® Core™ i9	Keyboard backlit color	RGB
Processor generation	12th gen Intel® Core™ i9	Software	
Processor model *	i9-12900H	Operating system architecture	64-bit
Processor cores	14		
Processor boost frequency	5 GHz		

Processor		Software	
Processor frequency *	2,5 GHz	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 *	16 GB	Intel VT-x with Extended Page Tables (EPT)	✓
Internal memory type	LPDDR5-SDRAM	Intel Stable Image Platform Program (SIPP)	✓
Memory form factor	On-board	Execute Disable Bit	✓
Maximum internal memory *	16 GB	CPU configuration (max)	1
Memory channels	Dual-channel	Embedded options available	✗
Storage		Intel Virtualization Technology for Directed I/O (VT-d)	✓
Total storage capacity *	1 TB	Intel Virtualization Technology (VT-x)	✓
Storage media *	SSD	Battery	
Total SSDs capacity	1 TB	Battery technology	Lithium-Ion (Li-Ion)
Number of SSDs installed	1	Number of battery cells	4
SSD capacity	1 TB	Battery capacity *	56 Wh
SSD interface	PCI Express 4.0	Power	
NVMe	✓	AC adapter power	100 W
SSD form factor	M.2	AC adapter frequency	50 - 60 Hz
Optical drive type *	✗	AC adapter input voltage	100 - 240 V
Card reader integrated	✓	AC adapter output current	5 A
Compatible memory cards	MicroSD (TransFlash)	AC adapter output voltage	20 V
Graphics		USB Type-C charging port *	✓
Discrete GPU manufacturer	NVIDIA	USB Power Delivery	✓
Discrete graphics card model *	NVIDIA GeForce RTX 3050 Ti	Security	
Discrete graphics card memory	4 GB	Fingerprint reader	✓
Discrete graphics memory type	GDDR6	Trusted Platform Module (TPM)	✓
On-board graphics card *	✓	Password protection	✓
Discrete graphics card *	✓	Password protection type	BIOS, User
On-board graphics card model *	Intel Iris Xe Graphics	Weight & dimensions	
NVIDIA G-SYNC	✓	Width	302 mm
Audio		Depth	204 mm
Audio system	Dolby Atmos	Height	12 mm
Number of built-in speakers	2	Weight *	1,18 kg
Built-in microphone	✓	Packaging content	
Number of microphones	3	Bag included	✓
Camera		Stylus pen	✓
Front camera	✓		
Front camera HD type	HD		
Rear camera	✓		



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