

ASUS TUF Gaming F16 FX608JMI-TU290W Intel® Core™ i7 i7-14650HX Laptop 40.6 cm (16") WUXGA 16 GB DDR5-SDRAM 1 TB SSD NVIDIA GeForce RTX 5060 Wi-Fi 6E (802.11ax) Windows 11 Home Grey



Brand : ASUS

Product family: TUF Gaming

Product code: 90NR0NB1-M00F80

Product name : FX608JMI-TU290W

- Windows 11 Home 64-bit
 - Intel Core i7-14650HX (30MB Cache)
 - 16" WUXGA 1920 x 1200 IPS-Level, NVIDIA GeForce RTX 5060 (8GB GDDR7)
 - 16GB (5600MHz) DDR5-SDRAM (2 x 8) & 1000GB SSD
 Intel Core i7-14650HX (30MB Cache), 16GB DDR5-SDRAM, 1000GB SSD, 16" WUXGA 1920 x 1200 IPS-Level, Intel UHD Graphics, NVIDIA GeForce RTX 5060 (8GB GDDR7), LAN, WLAN, Webcam, Windows 11 Home 64-bit

ASUS TUF Gaming F16 FX608JMI-TU290W Intel® Core™ i7 i7-14650HX Laptop 40.6 cm (16") WUXGA 16 GB DDR5-SDRAM 1 TB SSD NVIDIA GeForce RTX 5060 Wi-Fi 6E (802.11ax) Windows 11 Home Grey:

Serious gaming specs

As a member of the TUF Gaming family, the F16 boasts some seriously impressive specs, giving you access to the very best of gaming on Windows 11. Featuring up to an Intel® Core™ Ultra 9 processor 275HX and up to an NVIDIA® GeForce RTX™ 5070 Laptop GPU, the F16 can easily play the latest games or keep your workflow on schedule. Paired with up to 32GB of DDR5 5600MHz memory per slot and up to 4TB of expandable PCIe Gen 4 storage, this little machine is ready for anything, right out of the box.

Design		Audio	
Colour name	Jaeger Gray	Audio system	Dolby Atmos
Product type *	Laptop	Number of built-in speakers	2
Product colour *	Grey	Built-in microphone	✓
Form factor *	Clamshell	Camera	
Housing material	Plastic	Front camera	✓
Display back cover material	Plastic	Front camera resolution	1920 x 1080 pixels
Market positioning	Gaming	Front camera HD type	Full HD
Introduction year	2025	Network	
Display		Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Display diagonal *	40.6 cm (16")	Wi-Fi standards	Wi-Fi 6E (802.11ax)
Display resolution *	1920 x 1200 pixels	Mobile network connection *	✗
Touchscreen *	✗	Antenna type	2x2
HD type	WUXGA	Ethernet LAN	✓
Panel type	IPS-Level	Ethernet LAN data rates	10,100,1000 Mbit/s
Native aspect ratio	16:10	Bluetooth	✓
Anti-glare screen	✓	Bluetooth version	5.4
Display brightness	300 cd/m²	Ports & interfaces	
RGB colour space	sRGB	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	3
Colour gamut	100%	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Maximum refresh rate	144 Hz	Ethernet LAN (RJ-45) ports	1
Contrast ratio (typical)	1000:1	HDMI ports quantity *	1
Processor		HDMI version	2.1
Processor manufacturer *	Intel	Thunderbolt 4 ports quantity	1
Processor family *	Intel® Core™ i7	Intel® Thunderbolt 4	✓
Processor generation	Intel® Core™ i7 (14th gen)	Combo headphone/mic port	✓
Processor model *	i7-14650HX	USB Type-C DisplayPort Alternate Mode	✓
Processor cores	16		
Processor threads	24		
Processor boost frequency	5.2 GHz		

Processor		Performance	
Performance cores	8	Motherboard chipset	Intel HM770 Express
Efficient cores	8	Keyboard	
Performance-core Max Turbo Frequency	5.2 GHz	Pointing device	Touchpad
Efficient-core Max Turbo Frequency	3.7 GHz	Numeric keypad *	✓
Performance-core base frequency	2.2 GHz	Keyboard backlit	✓
Efficient-core base frequency	1.6 GHz	Keyboard backlit colour	RGB
Processor cache	30 MB	Keyboard backlit zone	1-zone RGB
Processor cache type	Smart Cache	Copilot key	✓
Processor base power	55 W	Software	
Maximum turbo power	157 W	Operating system architecture	64-bit
Memory		Trial software	1-month trial for new Microsoft 365 customers; McAfee 30 days free trial
Internal memory *	16 GB	Operating system installed *	Windows 11 Home
Internal memory type	DDR5-SDRAM	Bundled software	Xbox Game Pass Premium_2 months (*Terms and exclusions apply. Offer only available in eligible markets for Xbox Game Pass Premium. Eligible markets are determined at activation. Game catalog varies by region, device, and time.)
Memory clock speed	5600 MHz		
Memory form factor	SO-DIMM		
Memory layout (slots x size)	2 x 8 GB	Battery	
Memory slots	2x SO-DIMM		
Maximum internal memory *	64 GB		
Memory channels	Dual-channel	Power	
Storage		AC adapter power	200 W
Total storage capacity *	1 TB	AC adapter frequency	50 - 60 Hz
Storage media *	SSD	AC adapter input voltage	100 - 240 V
Total SSDs capacity	1 TB	AC adapter output current	10 A
Number of SSDs installed	1	AC adapter output voltage	20 V
SSD capacity	1 TB	USB Type-C charging port *	✓
SSD interface	PCI Express 4.0	USB Type-C required charging power (min) *	45 W
NVMe	✓	USB Type-C required charging power (max) *	100 W
SSD form factor	M.2	USB Power Delivery (USB PD)	✓
Optical drive type *	✗	Security	
Card reader integrated	✗	Cable lock slot	✓
Graphics		Cable lock slot type	Kensington
Discrete GPU manufacturer	NVIDIA	Password protection	✓
Discrete graphics card model *	NVIDIA GeForce RTX 5060	Password protection type	BIOS, User
Discrete graphics card memory	8 GB	Weight & dimensions	
Discrete graphics memory type	GDDR7	Width	354 mm
On-board graphics card *	✓	Depth	269 mm
On-board GPU manufacturer	Intel	Height (front)	1.79 cm
Discrete graphics card *	✓	Height (rear)	2.73 cm
On-board graphics card family	Intel® UHD Graphics	Weight *	2.2 kg
On-board graphics card model *	Intel® UHD Graphics	Packaging content	
NVIDIA G-SYNC	✓	AC adapter included *	✓



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Catalog Object Cloud



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