ASUS Vivobook Pro 15 OLED M6500RE-MA055W AMD Ryzen™ 9 6900HX Laptop 39.6 cm (15.6") 2.8K 16 GB LPDDR5-SDRAM 1 TB SSD NVIDIA GeForce RTX 3050 Ti Wi-Fi 6E (802.11ax) Windows 11 Home Silver

Brand : ASUS

Product family: Vivobook

Product code: 90NB0YG2-M00260
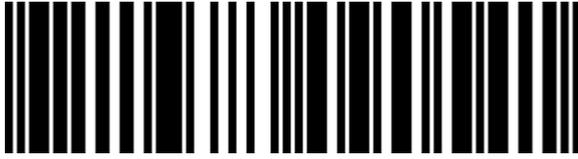
Product name : M6500RE-MA055W

- Windows 11 Home
- AMD Ryzen™ 9 6900HX Mobile Processor
- 15.6'' 2.8K 120Hz OLED display
- 1TB M.2 NVMe™ PCIe® 3.0 SSD storage
- ASUS IceCool Plus thermal Technology with 85W total TDP
- USB4® port up to 40 Gbps data transfer
- Dolby Atmos and Harman Kardon audio system
- ASUS Antibacterial Guard Technology
- Physical Webcam Shield
- One-touch login via power button
- WiFi 6E (802.11ax) enhanced with ASUS WiFi Master Premium
AMD Ryzen 9 6900HX (16MB Cache, 3.3GHz), 16GB LPDDR5-SDRAM, 1000GB SSD, 39.6 cm (15.6") 2.8K 2880 x 1620 OLED, AMD Radeon 680M, NVIDIA GeForce RTX 3050 Ti (4GB GDDR6), WLAN, Webcam, Windows 11 Home 64-bit

Design

Colour name	Cool Silver
Product type *	Laptop
Product colour *	Silver
Form factor *	Clamshell
Housing material	Aluminium, Plastic
Market positioning	Performance
Country of origin	China

Display

Display diagonal *	39.6 cm (15.6")
Display resolution *	2880 x 1620 pixels
Touchscreen *	✘
HD type	2.8K
Panel type	OLED
Native aspect ratio	16:9
Display surface	Gloss
Maximum display brightness (HDR)	600 cd/m²
RGB colour space	DCI-P3
Colour gamut	100%
Maximum refresh rate	120 Hz
Contrast ratio (typical)	1000000:1
High Dynamic Range (HDR) supported	✔
High Dynamic Range (HDR) technology	HDR True Black 600

Processor

Processor manufacturer *	AMD
Processor family *	AMD Ryzen™ 9
Processor model *	6900HX
Processor cores	8

Camera

Front camera	✔
Front camera resolution	1920 x 1080 pixels
Front camera HD type	Full HD
Privacy camera	✔
Privacy type	Privacy shutter

Network

Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Wi-Fi standards	Wi-Fi 6E (802.11ax)
Mobile network connection *	✘
Antenna type	2x2
Bluetooth	✔
Bluetooth version	5.3

Ports & interfaces

USB 2.0 ports quantity *	2
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1
USB4 Gen 3x2 ports quantity	1
HDMI ports quantity *	1
HDMI version	2.1
Combo headphone/mic port	✔
Charging port type	DC-in jack
USB Type-C DisplayPort Alternate Mode	✔
USB Power Delivery	✔

Performance

Repairability index	7.6

Keyboard

Pointing device	Touchpad

Processor

Processor boost frequency	4.9 GHz
Processor frequency *	3.3 GHz
Processor cache	16 MB
Processor cache type	L3

Memory

Internal memory *	16 GB
Internal memory type	LPDDR5-SDRAM
Memory form factor	On-board
Maximum internal memory *	16 GB

Storage

Total storage capacity *	1 TB
Storage media *	SSD
Total SSDs capacity	1 TB
Number of SSDs installed	1
SSD capacity	1 TB
SSD interface	PCI Express 3.0
NVMe	✓
SSD form factor	M.2
Optical drive type *	✗
Card reader integrated	✓
Compatible memory cards	MicroSD (TransFlash)

Graphics

Discrete GPU manufacturer	NVIDIA
Discrete graphics card model *	NVIDIA GeForce RTX 3050 Ti
Discrete graphics card memory	4 GB
Discrete graphics memory type	GDDR6
On-board graphics card *	✓
On-board GPU manufacturer	AMD
Discrete graphics card *	✓
On-board graphics card model *	AMD Radeon 680M

Audio

Audio system	Smart Amp
Speakers manufacturer	Harman Kardon
Built-in microphone	✓

Keyboard

Numeric keypad *	✓
Keyboard backlit	✓

Software

Operating system architecture	64-bit
Trial software	1-month trial for new Microsoft 365 customers. Credit card required. McAfee® 30 days free trial
Operating system installed *	Windows 11 Home

Battery

Battery technology	Lithium-Ion (Li-Ion)
Number of battery cells	3
Battery capacity *	70 Wh

Power

AC adapter power	150 W
AC adapter frequency	50 - 60 Hz
AC adapter input voltage	100 - 240 V
AC adapter output current	7.5 A
AC adapter output voltage	20 V

Security

Fingerprint reader	✓
Trusted Platform Module (TPM)	✓
Password protection	✓
Password protection type	BIOS, User

Weight & dimensions

Width	359.8 mm
Depth	234.3 mm
Height (front)	1.89 cm
Height (rear)	1.99 cm
Weight *	1.8 kg

Packaging data

Package width	65 mm
Package depth	460 mm
Package height	290 mm
Package weight	2.76 kg

Logistics data

Commodity Classification Automated Tracking System (CCATS)	8471300000

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