ASUS

ASUS VivoBook 15 X512FJ-EJ227T laptop 39.6 cm (15.6") Full HD Intel® Core™ i7 i7-8565U 8 GB DDR4-SDRAM 1 TB HDD NVIDIA GeForce MX230 Wi-Fi 5 (802.11ac) Windows 10 Home Grey

Brand : ASUS   **Product family:** VivoBook   **Product code:** X512FJ-EJ227T

Product name : X512FJ-EJ227T

- Windows 10 Home
- Intel Core i7-8565U (8MB Cache, 1.8GHz)
- 39.6 cm (15.6") Full HD 1920 x 1080 IPS, NVIDIA GeForce MX230
- 8GB (2400MHz) DDR4-SDRAM & 1000GB HDD

Intel Core i7-8565U (8MB Cache, 1.8GHz), 8GB DDR4-SDRAM, 1000GB HDD, 39.6 cm (15.6") Full HD 1920 x 1080 IPS, Intel UHD Graphics 620, NVIDIA GeForce MX230, WLAN, Webcam, Windows 10 Home ASUS VivoBook 15 X512FJ-EJ227T. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-8565U, Processor frequency: 1.8 GHz. Display diagonal: 39.6 cm (15.6"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 8 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 1 TB, Storage media: HDD. On-board graphics card model: Intel® UHD Graphics. Operating system installed: Windows 10 Home. Product colour: Grey

Design

Product type *	Laptop
Product colour *	Grey
Form factor *	Clamshell

Display

Display diagonal *	39.6 cm (15.6")
Display resolution *	1920 x 1080 pixels
Touchscreen *	✘
HD type	Full HD
Panel type	IPS
LED backlight	✔
Native aspect ratio	16:9
Display surface	Matt
Maximum refresh rate	60 Hz
NTSC coverage (typical)	45%

Processor

Processor manufacturer *	Intel
Processor generation	8th gen Intel® Core™ i7
Processor family *	Intel® Core™ i7
Processor model *	i7-8565U
Processor frequency *	1.8 GHz
Processor boost frequency	4.6 GHz
Processor threads	8
System bus rate	4 GT/s
Processor cores	4
Processor cache	8 MB
Processor cache type	Smart Cache
Processor socket	BGA 1528
Processor lithography	14 nm

Network

Bluetooth version	4.1

Ports & interfaces

USB 2.0 ports quantity *	2
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1
USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1
HDMI ports quantity *	1
Combo headphone/mic port	✔

Keyboard

Pointing device	Touchpad
Numeric keypad *	✔
Windows keys	✔

Software

Operating system installed *	Windows 10 Home

Processor special features

Intel® My WiFi Technology (Intel® MWT)	✔
Intel® Smart Response Technology	✔
Intel® Identity Protection Technology (Intel® IPT)	✔
Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel® Turbo Boost Technology	2.0
Enhanced Intel SpeedStep Technology	✔
Intel® Clear Video HD Technology (Intel® CVT HD)	✔
Intel Clear Video Technology	✔

Processor

Processor operating modes	64-bit
Processor codename	Whiskey Lake
Bus type	OPI
Thermal Design Power (TDP)	15 W
Configurable TDP-up frequency	2 GHz
Configurable TDP-up	25 W
Configurable TDP-down	10 W
Configurable TDP-down frequency	0.8 GHz
Tjunction	100 °C
Maximum number of PCI Express lanes	16
PCI Express slots version	3.0
PCI Express configurations	1x4, 2x2

Memory

Internal memory *	8 GB
Internal memory type	DDR4-SDRAM
Memory clock speed	2400 MHz
Memory form factor	On-board + SO-DIMM
Memory slots	1x SO-DIMM
Maximum internal memory *	12 GB

Storage

Total storage capacity *	1 TB
Storage media *	HDD
Total HDDs capacity	1 TB
Number of HDDs installed	1
HDD capacity	1 TB
Optical drive type *	✘
Card reader integrated	✔
Compatible memory cards	MicroSD (TransFlash)

Graphics

Discrete graphics card model *	NVIDIA GeForce MX230
On-board graphics card *	✔
Discrete graphics card *	✔
On-board graphics card model *	Intel® UHD Graphics
On-board graphics card base frequency	300 MHz
On-board graphics card dynamic frequency (max)	1150 MHz
Maximum on-board graphics card memory	32 GB
On-board graphics card DirectX version	12.0
On-board graphics card OpenGL version	4.5
On-board graphics card ID	0x3EA0

Audio

Audio system	SonicMaster
Built-in microphone	✔

Camera

Front camera	✔

Network

Wi-Fi	✔
Top Wi-Fi standard *	Wi-Fi 5 (802.11ac)
Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac)
Ethernet LAN	✘
Bluetooth	✔

Processor special features

Intel® Quick Sync Video Technology	✔
Intel Flex Memory Access	✔
Intel® AES New Instructions (Intel® AES-NI)	✔
Intel Trusted Execution Technology	✘
Intel Enhanced Halt State	✔
Intel VT-x with Extended Page Tables (EPT)	✔
Intel® Secure Key	✔
Intel TSX-NI	✘
Intel® OS Guard	✔
Intel Software Guard Extensions (Intel SGX)	✔
Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✔
Intel 64	✔
Execute Disable Bit	✔
Idle States	✔
Thermal Monitoring Technologies	✔
Processor package size	46x24 mm
Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
CPU configuration (max)	1
Embedded options available	✘
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel Identity Protection Technology version	1.00
Intel Smart Response Technology version	1.00
Intel Secure Key Technology version	1.00
Intel TSX-NI version	0.00
Intel Virtualization Technology (VT-x)	✔
Processor ARK ID	149091

Battery

Number of battery cells	2
Battery capacity *	37 Wh

Power

AC adapter power	65 W
AC adapter frequency	50/60 Hz
AC adapter input voltage	100 - 240 V
AC adapter output current	3.42 A
AC adapter output voltage	19 V

Certificates

Certification	UL, CE Marking Compliance, FCC Compliance, BSMI, CCC, CB, Energy Star

Sustainability

Sustainability certificates	ENERGY STAR

Weight & dimensions

Width	357.2 mm
Depth	230.4 mm
Height	19.9 mm

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