

**ASUS Vivobook 14 X412FL-EB178 laptop Intel® Core™ i5 i5-8265U
35,6 cm (14") Full HD 8 GB DDR4-SDRAM 512 GB SSD NVIDIA®
GeForce® MX250 Wi-Fi 5 (802.11ac) Blau**

Marke : ASUS

Produktfamilie: Vivobook

Artikel-Code: X412FL-EB178

Produktname : X412FL-EB178



ASUS Vivobook 14 X412FL-EB178. Produkttyp: Laptop, Formfaktor: Klappgehäuse. Prozessorfamilie: Intel® Core™ i5, Prozessor: i5-8265U, Prozessor-Taktfrequenz: 1,6 GHz. Anzeigegrösse (Diagonal): 35,6 cm (14"), HD type: Full HD, Auflösung: 1920 x 1080 Pixel. Arbeitsspeicher (RAM): 8 GB, Interner Speichertyp: DDR4-SDRAM. Gesamtspeicherkapazität: 512 GB, Speichermedien: SSD. On-board Grafik Modell: Intel® UHD Graphics, Dediziertes Grafikmodell: NVIDIA® GeForce® MX250. Produktfarbe: Blau

Design		Konnektivität	
Produkttyp *	Laptop	USB 3.2 Gen 1 (3.1 Gen 1) Anzahl der Anschlüsse vom Typ A *	1
Produktfarbe *	Blau	Anzahl HDMI Anschlüsse *	1
Formfaktor *	Klappgehäuse	Combo headphone/mic port	✓
Anzeige		Tastatur	
Anzeigegrösse (Diagonal) *	35,6 cm (14")	Eingabegerät	Touchpad
Auflösung *	1920 x 1080 Pixel	Numerisches Keypad *	✗
Touchscreen *	✗	Windows Tasten	✓
HD-Typ	Full HD	Software	
LED-Hintergrundbeleuchtung	✓	Vorinstalliertes Betriebssystem *	✗
Natives Seitenverhältnis	16:9	Prozessor Besonderheiten	
Display-Oberfläche	Matt	Intel My WiFi Technology	✓
Prozessor		Intel® Smart-Response-Technologie	✓
Prozessorhersteller *	Intel	Intel Identity Protection Technology	✓
Prozessorfamilie *	Intel® Core™ i5	Intel Hyper-Threading Technology	✓
Prozessorgeneration	Intel® Core™ i5 der achten Generation	Intel® Turbo-Boost-Technologie	2.0
Prozessor *	i5-8265U	Enhanced Intel SpeedStep Technologie	✓
Anzahl der Prozessorkerne	4	Intel Clear Video HD Technology	✓
Prozessor-Threads	8	Intel® Clear Video Technologie	✓
Max. Turbo-Taktfrequenz des Prozessor	3,9 GHz	Intel® Quick Sync Video Technologie	✓
Prozessor-Taktfrequenz *	1,6 GHz	Intel Flex Memory Access	✓
System-Bus	4 GT/s	Intel AES New Instructions	✓
Processor cache	6 MB	Intel Trusted Execution Technology	✗
Prozessor Cache Typ	Smart Cache	Intel Enhanced Halt State	✓
Prozessorsockel	BGA 1528	Intel VT-x with Extended Page Tables (EPT)	✓
Prozessor Lithografie	14 nm	Intel® Sicherer Schlüssel	✓
Processor operating modes	64-Bit		
Prozessor Codename	Whiskey Lake		
Bus type	OPI		

Prozessor		Prozessor Besonderheiten	
Thermal Design Power (TDP)	15 W	Intel® TSX-NI	✗
TDP-up Frequenz konfigurierbar	1,8 GHz	Intel Stable Image Platform Program (SIPP)	✗
TDP-up konfigurierbar	25 W	Intel® OS Guard	✓
TDP-down konfigurierbar	10 W	Intel® Software Guard Extensions (Intel® SGX)	✓
TDP-down Frequenz konfigurierbar	0,8 GHz	Intel Clear Video Technology for MID	✓
Tjunction	100 °C	Intel® 64	✓
Maximale Anzahl der PCI-Express-Lanes	16	Execute Disable Bit	✓
PCI Express slots version	3.0	Idle States	✓
PCI Express configurations	1x4, 2x2	Thermal Monitoring Technologies	✓
Speicher		Prozessor-Paketgröße	46x24 mm
Arbeitsspeicher (RAM) *	8 GB	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Interner Speichertyp	DDR4-SDRAM	CPU configuration (max)	1
Speichertaktfrequenz	2400 MHz	Embedded options available	✗
Memory form factor	On-board + SO-DIMM	Intel® Virtualisierungstechnik für direkte I/O (VT-d)	✓
Speichersteckplätze	1x SO-DIMM	Intel® Identity Protection Technologieversion	1,00
Maximaler Hauptspeicher *	12 GB	Intel® Smart Response Technologieversion	1,00
Speichermedien		Intel® Stable Image Platform Program (SIPP) Version	0,00
Gesamtspeicherkapazität *	512 GB	Intel® Secure Key Technologieversion	1,00
Speichermedien *	SSD	Intel® TSX-NI-Version	0,00
Gesamtkapazität der SSDs	512 GB	Intel® Virtualization Technologie (VT-X)	✓
Anzahl SSD installiert	1	ARK Prozessorerkennung	149088
SSD Speicherkapazität	512 GB	Battery	
Optisches Laufwerk - Typ *	✗	Anzahl Batteriezellen	2
Grafik		Batteriekapazität *	37 Wh
Dediziertes Grafikmodell *	NVIDIA® GeForce® MX250	Energiemanagement	
Separater Grafik-Adapterspeicher	2 GB	Netzteilstärke	65 W
Dedizierter Grafikspeicher Typ	GDDR5	Netzteilfrequenz	50/60 Hz
On-board graphics adapter *	✓	Netzteil Eingangsspannung	100 - 240 V
Separater Grafikkadapter *	✓	Strom Adapter - Ausgangsstrom	3,42 A
On-board Grafik Modell *	Intel® UHD Graphics	Netzteil Ausgangsspannung	19 V
On-Board Grafikkadapter Basisfrequenz	300 MHz	Sicherheit	
Maximale dynamische Frequenz der On-Board Grafikkadapter	1100 MHz	Passwortschutz	✓
Maximaler integrierter Grafik-Adapterspeicher	32 GB	Zertifikate	
On-Board Grafikkadapter DirectX Version	12.0	Zertifizierung	UL, CE Marking Compliance, FCC Compliance, BSMI, CCC, CB, Energy Star
On-Board Grafikkadapter OpenGL Version	4.5	Sustainability	
On-Board Grafikkadapter Geräte-ID	0x3EA0	Nachhaltigkeitszertifikate	ENERGY STAR
Audio		Gewicht u. Abmessungen	
Eingebautes Mikrofon	✓	Breite	322 mm
Kamera		Tiefe	212 mm
Frontkamera	✓	Höhe	19,9 mm
Netzwerk		Gewicht *	1,5 kg
Wi-Fi	✓	Konnektivität	
Top WLAN-Standard *	Wi-Fi 5 (802.11ac)	Anzahl der USB 2.0 Ports *	1
Wi-Fi-Standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac)		
Mobile Netzwerkverbindung *	✗		
Antennentyp	2x2		
Ethernet/LAN	✗		
Bluetooth	✓		

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