

**ASUS Vivobook Pro M580VD-EB76 Intel® Core™ i7 i7-7700HQ
Laptop 39,6 cm (15.6") Full HD 16 GB DDR4-SDRAM 1,26 TB
HDD+SSD NVIDIA® GeForce® GTX 1050 Windows 10 Home Gold,
Metallic**



Brand : ASUS

Product family: Vivobook

Article code: 90NB0FL1-M03140

Product name : M580VD-EB76

ASUS Vivobook Pro M580VD-EB76. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-7700HQ, Processor frequency: 2,8 GHz. Display diagonal: 39,6 cm (15.6"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 16 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 1,26 TB, Storage media: HDD+SSD. On-board graphics card model: Intel® HD Graphics 630. Operating system installed: Windows 10 Home. Product color: Gold, Metallic

Design		Keyboard	
Product type *	Laptop	Full-size keyboard	✓
Product color *	Gold, Metallic	Windows keys	✓
Form factor *	Clamshell		
Display		Software	
Display diagonal *	39,6 cm (15.6")	Operating system installed *	Windows 10 Home
Display resolution *	1920 x 1080 pixels		
Touchscreen *	✗		
HD type	Full HD	Processor special features	
LED backlight	✓	Intel® Wireless Display (Intel® WiDi)	✓
Native aspect ratio	16:9	Intel® My WiFi Technology (Intel® MWT)	✓
Display surface	Matt	Intel® Smart Response Technology	✓
Processor		Intel® Identity Protection Technology (Intel® IPT)	✓
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor family *	Intel® Core™ i7	Intel® Turbo Boost Technology	2.0
Processor generation	7th gen Intel® Core™ i7	Enhanced Intel SpeedStep Technology	✓
Processor model *	i7-7700HQ	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor cores	4	Intel Clear Video Technology	✓
Processor threads	8	Intel® InTru™ 3D Technology	✓
Processor boost frequency	3,8 GHz	Intel® Quick Sync Video Technology	✓
Processor frequency *	2,8 GHz	Intel Flex Memory Access	✓
System bus rate	8 GT/s	Intel® Smart Cache	✓
Processor cache	6 MB	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor cache type	Smart Cache	Intel Trusted Execution Technology	✗
Processor lithography	14 nm	Intel Enhanced Halt State	✓
Processor operating modes	64-bit	Intel VT-x with Extended Page Tables (EPT)	✓
Processor series	Intel Core i7-7700 Mobile Series	Intel® Secure Key	✓
Processor codename	Kaby Lake	Intel TSX-NI	✗
Bus type	DMI3	Intel Stable Image Platform Program (SIPP)	✗
Thermal Design Power (TDP)	45 W	Intel® OS Guard	✓
Configurable TDP-down	35 W		
Tjunction	100 °C		
Maximum number of PCI Express lanes	16		
PCI Express slots version	3.0		
PCI Express configurations	1x16, 1x8, 2x4, 2x8		
ECC supported by processor	✗		

Memory		Processor special features	
Internal memory *	16 GB	Intel Software Guard Extensions (Intel SGX)	✓
Internal memory type	DDR4-SDRAM	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Maximum internal memory *	16 GB	Intel 64	✓
Storage		Execute Disable Bit	✓
Total storage capacity *	1,26 TB	Idle States	✓
Storage media *	HDD+SSD	Thermal Monitoring Technologies	✓
Number of HDDs installed	1	Processor package size	42 x 28 mm
HDD capacity	1 TB	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
HDD interface	SATA	CPU configuration (max)	1
HDD speed	5400 RPM	Embedded options available	✗
Number of SSDs installed	1	Graphics & IMC lithography	14 nm
SSD capacity	256 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
SSD interface	SATA III	Intel Identity Protection Technology version	1,00
SSD form factor	M.2	Intel Smart Response Technology version	1,00
Optical drive type *	✗	Intel Stable Image Platform Program (SIPP) version	0,00
Card reader integrated	✓	Intel Secure Key Technology version	1,00
Compatible memory cards	SD, SDXC	Intel Small Business Advantage (SBA) version	1,00
Graphics		Intel TSX-NI version	0,00
Discrete graphics card model *	NVIDIA® GeForce® GTX 1050	Intel Virtualization Technology (VT-x)	✓
Discrete graphics card memory	2 GB	Processor ARK ID	97185
Discrete graphics memory type	GDDR5	Conflict-Free processor	✓
On-board graphics card *	✓	Battery	
Discrete graphics card *	✓	Battery technology	Lithium Polymer (LiPo)
On-board graphics card model *	Intel® HD Graphics 630	Number of battery cells	3
On-board graphics card base frequency	350 MHz	Battery capacity *	47 Wh
On-board graphics card dynamic frequency (max)	1100 MHz	Power	
Maximum on-board graphics card memory	64 GB	AC adapter power	120 W
On-board graphics card DirectX version	12.0	AC adapter frequency	50 - 60 Hz
On-board graphics card OpenGL version	4.4	AC adapter input voltage	100 - 240 V
On-board graphics card ID	0x591B	AC adapter output current	6,3 A
Audio		AC adapter output voltage	19 V
Audio system	SonicMaster	Security	
Built-in microphone	✓	Cable lock slot	✓
Camera		Cable lock slot type	Kensington
Front camera	✓	Trusted Platform Module (TPM)	✓
Network		Password protection	✓
Wi-Fi	✓	Certificates	
Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n)	Certification	UL, FCC Compliance, BSMI, CCC, CB, Energy star
Ethernet LAN	✓	Sustainability	
Ethernet LAN data rates	10,100,1000 Mbit/s	Sustainability certificates	ENERGY STAR
Bluetooth	✓	Weight & dimensions	
Bluetooth version	4.2	Width	380 mm
Ports & interfaces		Depth	256 mm
USB 2.0 ports quantity *	2	Height	19,2 mm
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	1	Weight *	2,3 kg
USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1	Packaging content	
Ethernet LAN (RJ-45) ports	1	AC adapter included *	✓
HDMI ports quantity *	1	Manual	✓
Combo headphone/mic port	✓		

Performance		Packaging content	
Motherboard chipset	Intel® HM175	Power cord included	✓
Keyboard			
Pointing device	Touchpad		
Numeric keypad *	✓		

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