

**ASUSPRO P45VA-MPRO1-P laptop Intel® Core™ i3 i3-3110M  
Computadora portátil 35.6 cm (14") 4 GB DDR3-SDRAM 500 GB  
Unidad de disco duro Windows 8 Pro Negro**

**Marca :** ASUS

**Familia de productos:**  
ASUSPRO

**Código del producto:** P45VA-MPRO1-P

**Nombre del producto :**  
P45VA-MPRO1-P



Intel Core i3-3110M (3M Cache, 2.40 GHz), Intel HM76, 4GB DDR3 1600 MHz SDRAM, 500GB SATA HDD 5400rpm, 14.0" HD (1366x768), Super-Multi DVD, SD, WLAN 802.11 b/g/n, Bluetooth V4.0, 10/100/1000/Gigabits Base T, HD Web Camera, USB 2.0/USB 3.0/VGA/HDMI, 4700 mAh, 2.3 kg, Windows 8 Professional 64-Bit

ASUSPRO P45VA-MPRO1-P. Tipo de producto: Computadora portátil, Factor de forma: Concha. Familia de procesador: Intel® Core™ i3, Modelo del procesador: i3-3110M, Frecuencia del procesador: 2.4 GHz. Diagonal de la pantalla: 35.6 cm (14"), Resolución de la pantalla: 1366 x 768 Pixeles. Memoria interna: 4 GB, Tipo de memoria interna: DDR3-SDRAM. Capacidad total de almacenaje: 500 GB, Unidad de almacenamiento: Unidad de disco duro, Tipo de unidad óptica: DVD Super Multi. Modelo de gráficos en tarjeta: Intel® HD Graphics 4000. Sistema operativo instalado: Windows 8 Pro. Color del producto: Negro

#### Design

Product type *	Laptop
Product colour *	Black
Form factor *	Clamshell
Market positioning	Business

#### Display

Display diagonal *	35.6 cm (14")
Display resolution *	1366 x 768 pixels
Touchscreen *	✗
LED backlight	✓
Native aspect ratio	16:9

#### Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i3
Processor generation	3rd gen Intel® Core™ i3
Processor model *	i3-3110M
Processor cores	2
Processor threads	4
Processor frequency *	2.4 GHz
System bus rate	5 GT/s
Processor cache	3 MB
Processor cache type	Smart Cache
Processor socket	BGA 1023
Processor lithography	22 nm
Processor operating modes	64-bit
Processor series	Intel Core i3-3100 Mobile Series
Processor codename	Ivy Bridge
Bus type	DMI
FSB Parity	✗

#### Software

Operating system architecture	64-bit
Operating system installed *	Windows 8 Pro

#### Processor special features

Intel® Wireless Display (Intel® WiDi)	✓
Intel® My WiFi Technology (Intel® MWT)	✓
Intel Smart Connect Technology	✗
Intel® Anti-Theft Technology (Intel® AT)	✓
Intel® Rapid Start Technology	✗
Intel® Smart Response Technology	✗
Intel® Identity Protection Technology (Intel® IPT)	✓
Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Intel® Turbo Boost Technology	✗
Intel® Small Business Advantage (Intel® SBA)	✗
Intel® Matrix Storage Technology (Intel® MST)	✗
Intel® High Definition Audio (Intel® HD Audio)	✗
Intel® Active Management Technology (Intel® AMT)	✗
Enhanced Intel SpeedStep Technology	✓
Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Intel Clear Video Technology	✗

Processor		Processor special features	
Stepping	L1	Intel® InTru™ 3D Technology	✓
Thermal Design Power (TDP)	35 W	Intel® Insider™	✓
Tjunction	90 °C	Intel® Quick Sync Video Technology	✓
Maximum number of PCI Express lanes	16	Intel Flex Memory Access	✓
PCI Express slots version	2.0	Intel® Smart Cache	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel® AES New Instructions (Intel® AES-NI)	✗
CPU multiplier (bus/core ratio)	24	Intel Trusted Execution Technology	✗
ECC supported by processor	✗	Intel Enhanced Halt State	✓
Memory			
Internal memory *	4 GB	Intel VT-x with Extended Page Tables (EPT)	✓
Internal memory type	DDR3-SDRAM	Intel Demand Based Switching	✗
Memory clock speed	1600 MHz	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Memory form factor	SO-DIMM		
Memory slots	2x SO-DIMM		
Maximum internal memory *	8 GB	Intel 64	✓
Storage			
Total storage capacity *	500 GB	Execute Disable Bit	✓
Storage media *	HDD	Idle States	✓
Number of HDDs installed	1	Thermal Monitoring Technologies	✓
HDD capacity	500 GB	Processor package size	37.5 x 37.5 (rPGA988B); 31 x 24 (BGA1023)
HDD interface	SATA	Supported instruction sets	AVX
HDD speed	5400 RPM	Processor code	SRON2
HDD size	2.5"	CPU configuration (max)	1
Optical drive type *	DVD Super Multi	Embedded options available	✗
Card reader integrated	✓	Graphics & IMC lithography	22 nm
Compatible memory cards	SD	Intel Virtualization Technology for Directed I/O (VT-d)	✗
Graphics			
Discrete graphics card model *	Not available	Intel Identity Protection Technology version	1.00
On-board graphics card *	✓	Intel Virtualization Technology (VT-x)	✓
Discrete graphics card *	✗	Intel Dual Display Capable Technology	✓
On-board graphics card family	Intel® HD Graphics	Intel FDI Technology	✓
On-board graphics card model *	Intel® HD Graphics 4000	Intel Rapid Storage Technology	✗
On-board graphics card base frequency	650 MHz	Intel Fast Memory Access	✓
On-board graphics card dynamic frequency (max)	1000 MHz	Processor ARK ID	65700
On-board graphics card ID	0x166	Conflict-Free processor	✓
Audio			
Audio system	HD Audio	Integrated 4G WiMAX	✓
Speakers manufacturer	Altec Lansing	Battery	
Built-in microphone	✓	Number of battery cells	6
Camera		Battery capacity	4700 mAh
Front camera	✓	Battery capacity *	50 Wh
Network		Power	
Wi-Fi	✓	AC adapter power	90 W
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)	AC adapter frequency	50 - 60 Hz
Ethernet LAN	✓	AC adapter input voltage	100 - 240 V
Ethernet LAN data rates	10,100,1000 Mbit/s	AC adapter output voltage	19 V
Bluetooth	✓	DC-in jack	✓
Bluetooth version	4.0	Security	
Ports & interfaces		Cable lock slot	✓
USB 2.0 ports quantity *	1	Cable lock slot type	Kensington
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Password protection	✓
Ethernet LAN (RJ-45) ports	1	Password protection type	BIOS, HDD
HDMI ports quantity *	1	Weight & dimensions	
		Width	348 mm
		Depth	234 mm

Ports & interfaces		Weight & dimensions	
DVI port	✗	Height (front)	2.93 cm
VGA (D-Sub) ports quantity	1	Height (rear)	3.55 cm
Headphone outputs	1	Weight *	2.3 kg
S/PDIF out port	✗	Packaging content	
Microphone in	✓	AC adapter included *	✓
Docking connector	✗	Warranty card	✓
ExpressCard slot	✗	Other features	
CardBus PCMCIA slot type	✗	Maximum internal memory (64-bit)	8 GB
SmartCard slot	✗	Intel segment tagging	Small Business
Performance			
Motherboard chipset	Intel HM76 Express		
Keyboard			
Pointing device	Touchpad		
Numeric keypad *	✗		
Windows keys	✓		

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