



## Notebook - Desktop - Tablet July 2019

## Notebook & Hybrids



		HP ProBook 250 G6	HP ProBook 250 G7	HP ProBook 430 G6	HP ProBook 430 G6	HP ProBook 450 G6
		5JK85EA	6HM40EA	5PQ27EA	5PP30EA	5TK70EA
PRICE	rec end-user ex VAT	€ 519	€ 519	€ 708	€ 829	€ 749
TYPE	form factor	Notebook	Notebook	Notebook	Notebook	Notebook
DISPLAY	size	15,6"	15,6"	13,3"	13,3"	15,6"
	resolution	HD - 1366 * 768	HD - 1366 * 768	HD - 1366 * 768	<b>Full-HD - 1920 * 1080</b>	<b>Full-HD - 1920 * 1080</b>
	technology	LED antigrare	LED antigrare	LED antigrare	LED antigrare IPS/UWVA	LED antigrare IPS/UWVA
CPU	CPU	Intel® Core™ i3-7020U	Intel® Core™ i3-7020U	Intel® Core™ i3-8145U	Intel® Core™ <b>i5-8265U</b>	Intel® Core™ i3-8145U
	Cores	<b>2</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>2</b>
	specs (max speed)	2.3 GHz, 3 MB cache	2.3 GHz, 3 MB cache	3.9 GHz, 4 MB SmartCache	3.9 GHz, 6 MB SmartCache	3.9 GHz, 4 MB SmartCache
	chipset	Integrated with processor	Integrated with processor	Integrated with processor	Integrated with processor	Integrated with processor
RAM	vPro	-	-	-	-	-
	memory installed	4 GB	4 GB	<b>8 GB</b>	<b>8 GB</b>	<b>8 GB</b>
	dimmm (total / free)	(2/1)	(2/1)	(2/1)	(2/1)	(2/1)
STORAGE	capacity	<b>256 GB</b>	<b>256 GB</b>	<b>128 GB</b>	<b>256 GB</b>	<b>256 GB</b>
	type	<b>M.2 SATA SSD</b>	<b>M.2 SATA SSD</b>	<b>M.2 PCIe NVMe SSD</b>	<b>M.2 PCIe NVMe SSD</b>	<b>M.2 PCIe NVMe SSD</b>
GRAPHICS	solution	Intel HD Graphics 620	Intel HD Graphics 620	Intel UHD Graphics 620	Intel UHD Graphics 620	Intel UHD Graphics 620
	dedicated memory	-	-	-	-	-
	connector types	VGA / HDMI	HDMI	HDMI	HDMI	HDMI
MIL-STD	military tested	-	-	MIL-STD 810G	MIL-STD 810G	MIL-STD 810G
OS	OS installed	Windows 10 Home 64bit	Windows 10 Home 64bit	Windows 10 Pro 64bit	Windows 10 Pro 64bit	Windows 10 Pro 64bit
	OS license included	-	-	-	-	-
CONNECT	RJ-45 / ethernet	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45
	Wireless LAN	Intel® Dual Band Wireless-AC 3168 802.11a/b/g/n/ac	Intel® Dual Band Wireless-AC 3168 802.11a/b/g/n/ac	Intel® 9560 802.11a/b/g/n/ac	Intel® 9560 802.11a/b/g/n/ac	Intel® 9560 802.11a/b/g/n/ac
	Bluetooth	Bluetooth	Bluetooth	Bluetooth	Bluetooth	Bluetooth
	WWAN	-	-	-	-	-
	SIM card	-	-	-	-	-
DOCKING	dockable?	-	-	<b>USB-c Universal Dock</b>	<b>USB-c Universal Dock</b>	<b>USB-c Universal Dock</b>
OPTICAL	optical drive	Optical drive	Optical drive	-	-	-
KEYBOARD	backlit keyboard	-	-	-	-	-
	numeric keypad	numeric keypad	numeric keypad	-	-	numeric keypad
WARRANTY	warranty (parts/labor/onsite)	<b>2/2/0 extended warranty</b>	<b>2/2/0 extended warranty</b>	<b>2/2/0 extended warranty</b>	<b>2/2/0 extended warranty</b>	<b>2/2/0 extended warranty</b>
PORTS	USB-a 3.0	2	2	2	2	2
	USB-a 2.0	1	1	-	-	1
	USB-c	0	0	1	1	1
	extra	media card reader SD, SDHC, SDXC	media card reader SD, SDHC, SDXC	media card reader SD, SDHC, SDXC	media card reader SD, SDHC, SDXC	media card reader SD, SDHC, SDXC
SECURITY	finger print reader	-	-	FPS	FPS	FPS
	TPM chip	TPM	TPM	TPM	TPM	TPM
	smart card reader	-	-	-	-	-
POWER	power supply	45W	45W	45W	45W	45W
	battery	31 WHr	31 WHr	45 WHr	45 WHr	45 WHr
	battery cells	3	3	3	3	3
	long life?	-	-	long life battery	long life battery	long life battery
	secondary battery connector	-	-	-	-	-
SOUND	solution	2 integrated stereo speakers	2 integrated stereo speakers	2 integrated stereo speakers	2 integrated stereo speakers	2 integrated stereo speakers
WEBCAM	webcam	720p HD webcam	720p HD webcam	720p HD webcam	720p HD webcam	720p HD webcam
DIMENSIONS	Depth	253.8 mm	246 mm	231 mm	231 mm	256,9 mm
	Width	380 mm	376 mm	308,5 mm	308,5 mm	364,9 mm
	Height front	23.8 mm	22.5 mm	18 mm	18 mm	19 mm
	Height rear	23.8 mm	23.8 mm	18mm	18mm	19 mm
	Weight (starting at)	1.86 kg	1,78 kg	1,49 kg	1,49 kg	2 kg



HP ProBook 450 G6	HP ProBook 450 G6	HP ProBook 470 G5	HP ProBook 470 G5	HP ProBook 470 G5	HP ProBook 440 X360
<b>5PP62EA</b>	<b>5TK30EA</b>	<b>2RR89EA</b>	<b>2RR73EA</b>	<b>2UB67EA</b>	<b>4LS88EA</b>
€ 849	€ 1.099	€ 979	€ 919	€ 1.149	€ 899
Notebook	Notebook	Notebook	Notebook	Notebook	Notebook
15,6"	15,6"	17,3"	17,3"	17,3"	14"
<b>Full-HD - 1920 * 1080</b>	<b>Full-HD - 1920 * 1080</b>	<b>Full-HD - 1920 * 1080</b>	<b>Full-HD - 1920 * 1080</b>	<b>Full-HD - 1920 * 1080</b>	<b>Full-HD - 1920 * 1080</b>
LED antigrare IPS/UWVA	LED antigrare IPS/UWVA	LED antigrare IPS/UWVA	LED antigrare IPS/UWVA	LED antigrare IPS/UWVA	Touch Screen LED
Intel® Core™ <b>I5-8265U</b>	Intel® Core™ <b>I7-8565U</b>	Intel® Core™ <b>I5-8250U</b>	Intel® Core™ <b>I5-8250U</b>	Intel® Core™ <b>I7-8550U</b>	Intel® Core™ <b>I5-8250U</b>
<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>
3,9 GHz, 6 MB SmartCache Integrated with processor	4,6 GHz, 8 MB SmartCache Integrated with processor	3,4 GHz, 6 MB cache Integrated with processor	3,4 GHz, 6 MB cache Integrated with processor	3,7 GHz, 8 MB cache Integrated with processor	3,4 GHz, 6 MB cache Integrated with processor
-	-	-	-	-	-
<b>8 GB</b> (2/1)	<b>16 GB</b> (2/1)	8 GB (2/1)	8 GB (2/1)	16GB (2/0)	8 GB (2/1)
<b>256 GB</b>	<b>512 GB</b>	1 TB	<b>256 GB</b>	<b>512 GB</b>	<b>256 GB</b>
<b>M.2 PCIe NVMe SSD</b>	<b>M.2 PCIe NVMe SSD</b>	5400	<b>solid-state drive</b>	<b>M.2 PCIe NVMe SSD</b>	<b>M.2 PCIe NVMe SSD</b>
Intel UHD Graphics 620	Intel UHD Graphics 620	<b>NVIDIA® GeForce® 930MX</b>	<b>NVIDIA® GeForce® 930MX</b>	<b>NVIDIA® GeForce® 930MX</b>	Intel UHD Graphics 620
-	-	<b>2 GB DDR3</b>	<b>2 GB DDR3</b>	<b>2 GB DDR3</b>	-
HDMI	HDMI	VGA / HDMI	VGA / HDMI	VGA / HDMI	HDMI
MIL-STD 810G	MIL-STD 810G	-	-	-	-
Windows 10 Pro 64bit	Windows 10 Pro 64bit	Windows 10 Pro 64bit	Windows 10 Pro 64bit	Windows 10 Pro 64bit	Windows 10 Pro 64bit
-	-	-	-	-	-
RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45
Intel® 9560 802.11a/b/g/n/ac	Intel® 9560 802.11a/b/g/n/ac	Intel® 8265 802.11a/b/g/n/ac	Intel® 8265 802.11a/b/g/n/ac	Intel® 8265 802.11a/b/g/n/ac	Intel® 8265 802.11a/b/g/n/ac
Bluetooth	Bluetooth	Bluetooth	Bluetooth	Bluetooth	Bluetooth
-	-	-	-	-	-
-	-	-	-	-	-
<b>USB-c Universal Dock</b>	<b>USB-c Universal Dock</b>	<b>USB-c Universal Dock</b>	<b>USB-c Universal Dock</b>	<b>USB-c Universal Dock</b>	<b>USB-c Universal Dock</b>
-	-	-	-	-	-
-	-	-	-	-	-
numeric keypad	numeric keypad	numeric keypad	numeric keypad	numeric keypad	-
<b>2/2/0 extended warranty</b>	<b>2/2/0 extended warranty</b>	<b>2/2/0 extended warranty</b>	<b>2/2/0 extended warranty</b>	<b>2/2/0 extended warranty</b>	<b>2/2/0 extended warranty</b>
2	2	1	1	1	2
1	1	2	2	2	0
1	1	1	1	1	1
media card reader SD, SDHC, SDXC	media card reader SD, SDHC, SDXC	media card reader SD, SDHC, SDXC	media card reader SD, SDHC, SDXC	media card reader SD, SDHC, SDXC	media card reader SD, SDHC, SDXC
FPS	FPS	FPR	FPR	FPR	FPR
TPM	TPM	TPM	TPM	TPM	TPM
-	-	-	-	-	-
45W	45W	65W	65W	65W	45W
45 WHr	45 WHr	48 WHr	48 WHr	48 WHr	48 WHr
3	3	3	3	3	3
long life battery	long life battery	long life battery	long life battery	long life battery	long life battery
-	-	-	-	-	-
2 integrated stereo speakers	2 integrated stereo speakers	2 integrated stereo speakers	2 integrated stereo speakers	2 integrated stereo speakers	2 integrated stereo speakers
720p HD webcam	720p HD webcam	720p HD webcam	720p HD webcam	720p HD webcam	720p HD webcam
256,9 mm	256,9 mm	276 mm	276 mm	276 mm	232 mm
364,9 mm	364,9 mm	413,8 mm	413,8 mm	413,8 mm	330 mm
19 mm	19 mm	22,5 mm	22,5 mm	22,5 mm	19,9 mm
19 mm	19 mm	22,5 mm	22,5 mm	22,5 mm	19,9 mm
2 kg	2 kg	2,5 kg	2,5 kg	2,5 kg	1,72 kg

# Desktop



HP ProDesk 400 G5 MT  
4VF71EA



HP ProDesk 400 G4 DM  
4VF48EA



HP ProDesk 400 G5 SFF  
4VF69EA



HP ProDesk 400 G5 MT  
4VF70EA

		HP ProDesk 400 G5 MT 4VF71EA	HP ProDesk 400 G4 DM 4VF48EA	HP ProDesk 400 G5 SFF 4VF69EA	HP ProDesk 400 G5 MT 4VF70EA
PRICE	rec end-user ex VAT	€ 999	€ 745	€ 745	€ 645
TYPE	form factor	Micro Tower	Desktop Mini	Small Form Factor	Micro Tower
KEYBOARD & MOUSE	keyboard included? mouse included?	<b>USB keyboard azerty</b> USB mouse	<b>USB slim keyboard azerty</b> USB mouse	<b>USB keyboard azerty</b> USB mouse	<b>USB keyboard azerty</b> USB mouse
DISPLAY	size resolution technology	- - -	- - -	- - -	- - -
CPU	CPU specs (max speed) chipset vPro	Intel <b>Core i7-8700</b> 3.20 GHz, 12 MB cache Intel B360 -	Intel <b>Core i5-8500T</b> 2.10 GHz, 9 MB cache Intel Q370 -	Intel <b>Core i5-8500</b> 3.0 GHz, 9 MB cache Intel B360 -	Intel <b>Core i5-8500</b> 3.0 GHz, 9 MB cache Intel B360 -
RAM	memory installed dimm (total / free)	16 (2/1) max 32GB	8 GB (2/1) max 32GB	8 GB (2/1) max 32GB	<b>4</b> (2/0) max 32GB
HDD	capacity rpm	512 GB <b>SSD</b>	256 GB <b>SSD</b>	256 GB <b>SSD</b>	500 <b>HDD</b>
GRAPHICS	solution dedicated memory connector types	Intel HD Graphics 630 - VGA / DisplayPort	Intel HD Graphics 630 - VGA / DisplayPort	Intel HD Graphics 630 - VGA / DisplayPort	Intel HD Graphics 630 - VGA / DVI-D
OS	OS installed OS license included	<a href="#">Windows 10 Pro 64bit</a> -	<a href="#">Windows 10 Pro 64bit</a> -	<a href="#">Windows 10 Pro 64bit</a> -	<a href="#">Windows 10 Pro 64bit</a> -
MOUNT	wall-mountable?	-	-	-	-
CONNECT	RJ-45 / ethernet Wireless LAN Bluetooth	RJ-45 - -	RJ-45 - -	RJ-45 - -	RJ-45 - -
OPTICAL	optical drive	Slim DVD+/-RW	-	-	Slim DVD+/-RW
WARRANTY	warranty (parts/labor/onsite)	<b>2/2/2 extended warranty</b>	<b>2/2/2 extended warranty</b>	<b>2/2/2 extended warranty</b>	<b>2/2/2 extended warranty</b>
PORTS	USB 3.1 USB 2.0 serial / parallel ports PS2  PCI / PCIe ports  extra	2 (front), 2 (back) 4 (back), 1 (internal) - 2  (1) M.2 PCIe x1 2230 (for WLAN) (1) M.2 PCIe x4 2280/2230 Combo (for storage) 2x PCI Express v3.0 x1 1x PCIe x16 low profile M.2 PCIe, M.2 2230	2 (front), 2 (back) 2 (back) - -  (1) M.2 PCIe x1 2230 (for WLAN) (1) M.2 PCIe x4 2280/2230 Combo (for storage)	2 (front), 2 (back) 4 (back) - 2  PCI Express v3.0 x1 1x PCIe x16 low profile M.2 PCIe, M.2 2230	2 (front), 2 (back) 4 (back) - 2  (1) M.2 PCIe x1 2230 (for WLAN) (1) M.2 PCIe x4 2280/2230 Combo (for storage) 2x PCI Express v3.0 x1 1x PCIe x16 low profile M.2 PCIe, M.2 2230
DRIVE BAYS	external 5.25 (total / free) external 3.50 (total / free) internal 3.50 (total / free) internal 2.50 (total / free)	(0/0) (0/0) (2/1) (0/0)	- - - (1/0)	(0/0) (0/0) (1/0) (0/0)	(0/0) (0/0) (2/1) (0/0)
SECURITY	TPM chip	TPM	TPM	TPM	TPM
WEBCAM	webcam	-	-	-	-
POWER	power supply	180W	65W	180W	180W
SOUND	solution	Conexant CX20632 codec	Conexant CX20632 codec	Conexant CX20632 codec	Conexant CX20632 codec
DIMENSIONS	Depth Width Height front Weight (starting at)	275 mm 170 mm 338 mm 5.47 kg	177 mm 174.5 mm 342 mm <b>1,21 kg</b>	296 mm 95 mm 270 mm 4,6 kg	275 mm 170 mm 338 mm 5.47 kg