

All-in-One PC

AVTECH[®]
available technologies

AVTECH PRO B20



All-in-One PC **AVTECH PRO B20**

Operation System Microsoft Windows 10 Pro

Display

Matrix	VA
Surface	Matte
Max. Resolution	1920 x 1080
Dimension	21,5"
Displayed colors	16,7 million
Contrast Ratio	3000:1
Frequency	60 Hz
Viewing Angle	178°
Aspect ratio	16:9

Processor Intel® Core™ 8/9-th generation max TDP 65W

Processor Intel® Core™ i7-8700T (6 cores / 12 threads, 2.40 GHz, up to 4,0 GHz, 12 MB, Intel® UHD Graphics 630)
Processor Intel® Core™ i5-9400T (6 cores / 6 threads, 1.80 GHz, up to 3,4 GHz, 9 MB, Intel® UHD Graphics 630)
Processor Intel® Core™ i5-8500T (6 cores / 6 threads, 2.10 GHz, up to 3,5 GHz, 9 MB, Intel® UHD Graphics 630)
Processor Intel® Core™ i5-8400T (6 cores / 6 threads, 1.70 GHz, up to 3,3 GHz, 9 MB, Intel® UHD Graphics 630)
Processor Intel® Core™ i3-8100T (4 cores / 4 threads, 3.10 GHz, 6 MB, Intel® UHD Graphics 630)
Processor Intel® Core™ i5-9500T (6 cores / 6 threads, 2.20 GHz, up to 3,7 GHz, 9 MB, Intel® UHD Graphics 630)
Processor Intel® Core™ i5-8500 (6 cores / 6 threads, 3.00 GHz, 9 MB, Intel® UHD Graphics 630)
Processor Intel® Core™ i5-8400 (6 cores / 6 threads, 2.80 GHz, 9 MB, Intel® UHD Graphics 630)
Processor Intel® Core™ i3-9100 (4 cores / 4 threads, 3.60 GHz, up to 4,2 GHz, 6 MB, Intel® HD Graphics 630)
Processor Intel® Core™ i3-8100 (4 cores / 4 threads, 3.60 GHz, 6 MB, Intel® UHD Graphics 630)
Processor Intel® Pentium® G5400T (2 cores / 4 threads, 3.10 GHz, 4 MB, Intel® UHD Graphics 610)
Processor Intel® Celeron® G4930 (2 cores / 2 threads, 3.20 GHz, 2 MB, Intel® UHD Graphics 610)
Processor Intel® Celeron® G4900 (2 cores / 2 threads, 3.10 GHz, 2 MB, Intel® UHD Graphics 610)
Processor Intel® Pentium® Gold G5400 class (2 cores / 4 threads, 3.70 GHz, 4 MB, Intel® UHD Graphics 610)

*Note. With Intel® Turbo Boost technology clock frequency and performance may vary depending on load and other factors

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Memory. Available options

4 GB (1 x 4 GB module) DDR4, non-ECC, 2133 MHz, SO-DIMM
4 GB (1 x 4 GB module) DDR4, non-ECC, 2400 MHz, SO-DIMM
4 GB (1 x 4 GB module) DDR4, non-ECC, 2666 MHz, SO-DIMM
8 GB (2 x 4 GB modules) DDR4, non-ECC, 2133 MHz, SO-DIMM
8 GB (2 x 4 GB modules) DDR4, non-ECC, 2400 MHz, SO-DIMM
8 GB (2 x 4 GB modules) DDR4, non-ECC, 2666 MHz, SO-DIMM
8 GB (1 x 8 GB module) DDR4, non-ECC, 2133 MHz, SO-DIMM
8 GB (1 x 8 GB module) DDR4, non-ECC, 2400 MHz, SO-DIMM
8 GB (1 x 8 GB module) DDR4, non-ECC, 2666 MHz, SO-DIMM
16 GB (2 x 8 GB modules) DDR4, non-ECC, 2133 MHz, SO-DIMM
16 GB (2 x 8 GB modules) DDR4, non-ECC, 2400 MHz, SO-DIMM
16 GB (2 x 8 GB modules) DDR4, non-ECC, 2666 MHz, SO-DIMM
16 GB (1 x 16 GB module) DDR4, non-ECC, 2133 MHz, SO-DIMM
16 GB (1 x 16 GB module) DDR4, non-ECC, 2400 MHz, SO-DIMM
16 GB (1 x 16 GB module) DDR4, non-ECC, 2666 MHz, SO-DIMM
32 GB (2 x 16 GB modules) DDR4, non-ECC, 2133 MHz, SO-DIMM
32 GB (2 x 16 GB modules) DDR4, non-ECC, 2400 MHz, SO-DIMM
32 GB (2 x 16 GB modules) DDR4, non-ECC, 2666 MHz, SO-DIMM

Internal storage

128 GB PCIe® NVMe™ M.2 SSD
1024 GB PCIe® NVMe™ M.2 SSD
256 GB PCIe® NVMe™ M.2 SSD
512 GB PCIe® NVMe™ M.2 SSD
500 GB 5400 rpm SATA II 2.5" HDD
1000 GB 5400 rpm SATA II 2.5" HDD
2000 GB 5400 rpm SATA II 2.5" HDD
500 GB 5400 rpm SATA III 2.5" HDD
1000 GB 5400 rpm SATA III 2.5" HDD
2000 GB 5400 rpm SATA III 2.5" HDD
2000 GB 7200 rpm SATA III 2.5" HDD
1000 GB 7200 rpm SATA III 2.5" HDD
500 GB 7200 rpm SATA III 2.5" HDD
1024 GB SATA III 2.5" SSD
128 GB SATA III 2.5" SSD
256 GB SATA III 2.5" SSD
512 GB SATA III 2.5" SSD

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Motherboard

Name	Asus Prime H310T2
Chipset	Intel® H310
Heat dissipation requirements	TDP 65W
Socket	LGA1151
Maximum RAM capacity	32 GB
RAM slot	SO-DIMM x2 (DDR4)
RAM frequency	2666*/2400/2133 MHz, non-ECC
Note: Dual-channel memory support To use two memory channels, at least 2 modules of the same memory must be ordered. The frequency of 2666 MHz can be reduced to 2400 or 2133, depending on the processor model	
LAN Realtek® RTL8111H, 1 x Gigabit LAN Controller(s) 10/100/1000 Mbps	
Built-in wireless adapter WLAN	M 2 Wireless & Bluetooth combo RT8821ce - 802.11AC/ABGN WLAN with BLUETOOTH 4.2 802.11ac
Audio codec	Realtek ALC887 - 8 channel high definition sound
Graphics Intel®	(depending on the processor)

Connectivity

1 x Kensington lock

On the back:

Constant power voltage slot (support 19V4.74A)	1
Audio Connectors: Line-out / Headphones	1
Audio Connectors: Line-in / Microphone	1
Video Connector: HDMI v2.0 (HDMI support with max resolution 4096 x 2160)	1
Another I/O:	
RS-232	1
Ethernet (RJ-45)	1
USB 3.1 Gen 1	4
On the side panel (right):	
USB 2.0	2
SD card reader	1
On the side panel (left)	
Audio Connectors: Line-out / Headphones	1

Expansion Slots

2.5-inch internal drive bays for SATA drive	1
M.2 Socket 3 M-key 2280/2260 (both SATA & PCIE mode)	1
M.2-2230 on the motherboard for the preinstalled WLAN module	1

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Security

Trusted Platform Module (TPM) (additional module installation required)

Management Task Force

WfM	2.0
DMI	2.0
WOL by	PME

Dimensions, weight

*Dimension Notes: height indicated with a monitor mounted on a stand.

Width - Height - Thickness	491x313.7x49 mm
Net weight	4,8 kg ± 100 gr (depending on configuration)

Colour

Case	Black
Stand	Black

Additional Information

Audio system built-in stereo speakers	4Ω 3W
Built-in webcam	2.0MP with microphone
Design data:	
Tilt angle	from -5 to +10 degrees
Possibility to install vesa mounts	100*100mm
Wireless charging function (optional)	
Optical drive (optional)	