

# P52U

## ALL IN ONE PC



<b>PROCESSOR</b>	Intel® Comet Lake-U Celeron® 5205U, 15W max. TDP (i3-10110U optional)	
<b>MEMORY</b>	DDR4 SODIMM 2400/2666/3200 MHz slots, Supports dual channel up to 64GB (32GB x 2)	
<b>VIDEO GRAPHICS</b>	Intel Ultra HD 610 graphics	
<b>VIDEO OUTPUT</b>	HDMI 1.4b + VGA, Supports two additional displays	
<b>AUDIO</b>	C-Media CM6542 or Realtek ALC269, HD audio (Digital Audio is supported via HDMI) Line-out, MIC input	
<b>MICROPHONE</b>	Electret Condenser Microphone, 2W speakers x 2	
<b>TOUCH SCREEN</b>	15.6", 16:9 LC wide screen display, 1920 x 1080 px capacitive 10-point multi-touch (supports gloved touch w/ gloves 0.4 mm thick)	
<b>WIRELESS LAN</b>	Two internal WLAN antennas pre-installed (2.4/5 GHz), two perforations for optional external antennas	
<b>ETHERNET</b>	Intel i219	Supports Wake on LAN function
	10/100/1000 Mb/s operation	
<b>STORAGE INTERFACE</b>	SATA III 6 GB/s interface, 2.5" device bay x 1	
<b>FRONT PANEL</b>	(1) Power LED (1) Battery LED (1) Hard Disk LED	(1) Multi-touch LCD display (1) Webcam (FHD) (1) Microphone
<b>RIGHT PANEL</b>	(2) COM port (optional) (1) Hole for optional antenna	(1) Kensington Lock (1) Vent
<b>LEFT PANEL</b>	(1) Power Button (1) SD Card Reader (1) Clear CMOS	(2) USB 3.2 Gen 1 port (1) Vent
<b>BACK &amp; BOTTOM PANEL</b>	(1) VGA port (1) HDMI 1.4b (2) COM port (1) Microphone in (1) Headphone jack	(1) DC-in (2) USB 2.0 port (1) RJ45 LAN (2) USB 3.2 Gen 1 port
<b>DIMENSIONS</b>	15.5(L) x 10.7(W) x 1.6(H) inches	
<b>POWER</b>	Input: 100 - 240V AC, max 1.6A Output: 19V, max 3.42A	65W 19V power supply Battery optional
<b>ACCESSORIES</b>	Quick Guide 65W power adapter Screws	Driver DVD Power cord 2.5" drive bracket x 2
<b>EXPANSION SLOT</b>	(1) M.2 2280 BM slot	
<b>OS SUPPORT</b>	Windows 10, Windows 11, Linux 64 bit	

For more information on all products, please contact us at [sales@us.shuttle.com](mailto:sales@us.shuttle.com) or 626.820.9000

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<b>CHASSIS</b>	Black chassis, Kensington Lock hole on back panel 100mm VESA mountable (stand can be removed to reveal screw holes) Dimensions: 15.6 (L) x 10.7 (W) x 1.6 (H) inches Weight: 7.2 LBS (net) / 9.9 LBS (gross)
<b>POWER SUPPLY</b>	External 65W power adapter (fanless), Battery optional AC input voltage: 100 - 240V, 50 - 60 Hz, max 1.6A Output: 19V DC, max 3.42A , max 65W
<b>OPERATING SYSTEM</b>	The system comes without an operating system installed. Compatibility: Windows 10, Windows 11, Linux 64 bit
<b>PROCESSOR SUPPORT</b>	Intel® Celeron® 5205U (ULV), i3-10110U optional 14 nm structure, Comet Lake-U platform (10th Gen Intel Core) CPU cores/threads: 2/2, L1/L2/L3 cache: 256kb/1MB/2MB CPU clock frequency: 1.9 GHz Max supported processor power consumption (TDP): 15W Supports 64 bit, AES-NI, VT-x (EPT), VT-d, Enhanced SpeedStep, NX bit, SSE 4.1/4.2 System on chip processor (SoC), no chipset required
<b>FANLESS COOLING</b>	Passive heatpipe cooling, no fan noise at all Suitable for noise sensitive environments Fanless, dust-free and virtually maintenance free
<b>MEMORY SUPPORT</b>	2 x 260 pin SODIMM slots Supports DDR4 2400 (PC4-19200) SDRAM at 1.2V Supports Dual Channel mode Supports a max. of 32GB per DIMM, up to 64GB total (2 x 32 GB) Supports two unbuffered DIMM module (no ECC or registered)
<b>M.2 SLOT</b>	M.2 2280 BM slot provides the following interfaces: PCI-Express Gen 2.0 X4 (up to 32GB/s data transfer speed), SATA v3.0 (6 GB/s) interface  Supports M.2 cards with a width of 22 mm and a length of 80 mm. Supports M.2 SATA SSDs (with BM key) and M.2 PCI-E NVMe SSDs (with M key).
<b>AUDIO</b>	C-Media CM6542 or Realtek® ALC 269 audio codec, Digital audio supported via HDMI Two analog audio connectors (3.5 mm) on the bottom panel: 2 channel line-out (headphones), Microphone input
<b>WIRED NETWORK</b>	RJ45 connector supports Gigabit LAN at 10/100/1000 Mb/s Intel i219 ethernet controller with MAC, PHY, PCIe interface Supports Wake on LAN (WOL) from S3, S4 modes Supports network boot by Preboot eXecution Environment (PXE)
<b>CARD READER</b>	Integrated card reader supports SD, SDHC, and SDXC memory flash cards
<b>WEBCAM</b>	Integrated full HD 2.0 Megapixel (1920 x 1080) webcam
<b>INTEGRATED GRAPHICS</b>	Intel Ultra HD 610 graphics, GPU clock rate: 300 - 900 MHz Supports DirectX12, full H264, H265 8/10 bit, VP8/9, VC-1, AVC hardware decoding Supports Quick Sync Video and Clear Video HD technology  Two video ports support two additional independent screens: -HDMI 1.4b supports 1920 x 1080/60 Hz or 3840 x 2160/30 Hz -VGA/D-sub analog video supports 1920 x 1080/60 Hz  Clone mode: all displays show the same content at 1920 x 1080 resolution Extended mode: all displays show different content

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<b>POWER CONSUMPTION</b>	External 65W power adapter (fanless) Input: 100 - 240V AC, 50/60 Hz, max 1.6 A Output: 19V DC, max 3.42A, max 65W	
<b>IP54 PROTECTED</b>	The front panel is dust and splash water protected with protection class IP54	
<b>24/7 NONSTOP OPERATION</b>	Hard disk must be approved for long term operation by manufacturer, keep ventilation holes clear	
<b>TOUCHSCREEN</b>	15.6" LCD, IPS technology, 16:9 widescreen panel (1920 x 1080 px), 2.0 Megapixel Capacitive touch panel with 10 point multi-touch, Stylus pen not supported Supports fingerprint input with gloves (PVC, cotton, cotton/linen)	
<b>BIOS</b>	AMI BIOS in 16 MB EEPROM with SPI interface Supports power-on-after-power-fail / always on Supports Wake-on-LAN from S3, S4, S5 ACPI states Supports hardware monitoring and watch dog functionality Supports Firmware TPM v2.0 functionality	
<b>STORAGE</b>	Supports one 2.5" SATA hard disk or SSD drive, max height 9.5 mm Supports SATA III (6 GB/s bandwidth), SATA cable pre-installed	
<b>MICROPHONE/SPEAKERS</b>	Front panel integrated with Electret Condenser Microphone and 2 x 2W speakers	
<b>ONBOARD CONNECTORS</b>	Internal USB 2.0 type A connector USB 2.0 headers x 3 (all occupied) Serial ATA connector (data/power) Speakers/MIC (4-pin, occupied) LPC connector (occupied)	eDP connector (Embedded DisplayPort) - occupied by display I2C connector CMOS battery connector (2 pin, occupied)
<b>BACK/BOTTOM CONNECTORS</b>	(1) HDMI 1.4b port (video/audio) (1) VGA port (analog video, 15 pol) (1) RJ45 Gigabit LAN (2) COM/serial (2) USB 3.2 Gen 1	(1) VESA mount holes (remove stand to reveal) (1) Audio line out/headphones (1) Microphone input (3.5 mm) (1) DC input (5.5/2.5 mm) (2) USB 2.0
<b>SIDE CONNECTORS</b>	(1) Power button (2) USB 3.2 Gen 1 (2) COM port (optional)	(1) SD Card Reader (2) Perforation for optional WLAN/LTE antennas (7 mm) (1) Kensington Lock hole
<b>INCLUDED ACCESSORIES</b>	XPC installation guide Driver DVD Screw pack	External 65W/19V power adapter Power cord 2 x bracket to install 2.5" drive
<b>OPTIONAL ACCESSORIES</b>	M.2 WLAN module w/ two external antennas (WLN-M/WLN-M1) COM port adapter (PCP21/PCP11)	
<b>ENVIRONMENTAL CRITERIA</b>	Operating temperature: 0 - 40°C Ventilation holes must be kept clear	Humidity: 10 - 90% (non condensing)
<b>CERTIFICATIONS</b>	EMI: CE, UKCA, FCC, RCM, VCCI, BSMI Safety: CB 60950/62368, cTUVus, BSMI	Other: RoHS, Energy Star, ErP, Lot 3
	This model is classed as a technical information equipment (ITE) in class B and is intended for use in living rooms and offices. The CE mark approves conformity by the EU directives: (1) 2014/30/EU relating to electromagnetic compatibility (EMC) (2) 2014/35/EU relating to Electrical Equipment designed for use within certain voltage limits (LVD) (3) 2009/125/EU relating to eco-design requirements for energy related products (ErP)	

**BIOS DOWNLOADS:** <https://global.shuttle.com/products/productsDownload?pn=P52U>

**SUPPORT LIST:** <https://global.shuttle.com/products/productsSupportList?pn=P52U>

**FAQ LIST:** <http://global.shuttle.com/support/faq>

**PRODUCT WARRANTY:** <https://www.shuttlecomputers.com/policies>

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## P52U

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## Front View and Left Side View



- |                                 |                                    |
|---------------------------------|------------------------------------|
| <b>A</b> Microphone             | <b>1</b> Hole for optional antenna |
| <b>B</b> Webcam (Full HD)       | <b>2</b> Power button              |
| <b>C</b> Multi-touch LCD screen | <b>3</b> SD card reader            |
| <b>D</b> Power LED              | <b>4</b> USB 3.2 Gen 1 port x 2    |
| <b>E</b> Hard Disk LED          | <b>5</b> Clear CMOS                |
| <b>F</b> Battery LED            |                                    |

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### Bottom and Right Side View



- |                                 |                            |  |
|---------------------------------|----------------------------|--|
| <b>A</b> COM 2 port             | <b>G</b> USB 3.2 Gen 1 x 2 | <b>1</b> Hole for optional antenna x 2 |
| <b>B</b> COM 1 port             | <b>H</b> HDMI video output | <b>2</b> COM port x 2 (optional)       |
| <b>C</b> D-Sub/VGA video output | <b>I</b> Audio Line-out    | <b>3</b> Kensington Lock               |
| <b>D</b> DC-in                  | <b>J</b> Microphone input  |  |
| <b>E</b> USB 2.0 port x 2       |                            |  |
| <b>F</b> RJ45 Gigabit LAN       |                            |  |

The stand on the back can be removed to reveal four VESA mounting screw holes.  
VESA mount not included.

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### EQUIPPED WITH INTEL® COMET LAKE-U

The P52U supports Intel® Whiskey Lake-U platform technology with an Intel® Celeron® 5205U dual core processor (Core™ i3-10110U/i5-10210U optional). It supports DDR4 2666 MHz memory (up to 64 GB) with Intel® Ultra HD 610 graphics for 4K/Ultra HD video playback.



### TOUCH SCREEN

The 15.6" multi-touch screen does not require a mouse and keyboard, making it particularly suitable for interactive kiosk and point-of-sale applications.



### IP54 CERTIFIED DESIGN

The front panel of the P52U is IP54 certified for dust and splash water resistance, suitable for indoor applications where the touch screen may be exposed to humidity and the occasional splashing of water.



### EXPANDABILITY PERIPHERAL CONNECTIVITY

Equipped with USB 3.2 Gen 1, USB 2.0, RS232, Intel® Gigabit LAN, SD card reader, FHD webcam, and speakers, the P52U can easily connect to other commercial devices. An optional accessory offers RS232, DIO, and USB for expansion cards.



### FANLESS DESIGN

With a passive thermal cooling system, the fanless design reduces power consumption required by a fan. Use with solid state disks for an operational platform completely free of noise.

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<b>ACCESSORY</b>	<b>PCP11</b>
<b>DESCRIPTION</b>	The PCP11 accessory adds up to two more COM ports for a total of
<b>COMPATIBILITY</b>	P20U/P22U/P51U/P52U series, DS10U/DS20U series, XH410G/XH510G/XH510G2, SH610R4
<b>PORTS</b>	External: Sub-D, 9-pin, male Internal: 10-pin (2x5), female, 2 mm pitch



<b>ACCESSORY</b>	<b>PCP21</b>
<b>DESCRIPTION</b>	Dual RS232/COM port adapter for some all-in-one PCs; the P20U/P22U and P51U/P52U comes with two COM ports. The PCP21 adds two more COM ports for a total of
<b>EXTERNAL PORTS</b>	COM1 (RS232) x 1, COM2 (RS232) x 1, COM3 (RS232/RS422/RS485) x 1 (Supports 0V/+5V/+12V), COM4 (RS232) x 1, DIO RJ11 port x 1
<b>INTERNAL PORTS</b>	USB 2.0 x 2



<b>ACCESSORY</b>	<b>WLN-M</b>
<b>DESCRIPTION</b>	The WLN-M wireless LAN kit can be used to equip XPC cube and slim series models with the wireless LAN standard 802.11 n/ac at 2.4/5 GHz. The combo device supports Bluetooth 4.0.
<b>ITEMS INCLUDED</b>	M.2 2230 (NGFF) WLAN card, XPC slim antenna cables x 2 (8.3 in and 11.4 in), XPC cube antenna cables x 2 (20.8 in), Dipole antennas x 2, Quick guide, Driver DVD
<b>OS SUPPORT</b>	Windows 7, Windows 8.1, Windows 10, Windows 11, Linux (32/64 bit)

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