P92U Series

ALL IN ONE PC

PROCESSOR	Intel® Comet Lake-U Celeron® 5205U, 15W max. TDP (i3-10110U/i5-10210U optional)
MEMORY	DDR4 SODIMM 2400 MHz slots, Supports dual channel up to 64GB (32GB x 2)
VIDEO GRAPHICS	Intel Ultra HD 610 graphics
VIDEO OUTPUT	HDMI 1.4b + VGA, Supports two additional displays
AUDIO	Realtek ALC269, HD audio (Digital Audio is supported via HDMI) Line-out, MIC input
MICROPHONE	Electret Condenser Microphone, 2W speakers x 2
TOUCH SCREEN	19.5", 16:9 LC wide screen display, 1600 x 900 px capacitive 10-point multi-touch. Supports gloved touch w/ gloves (PV, cotton, cotton/linen)
WIRELESS LAN	Two internal WLAN antennas pre-installed (2.4/5 GHz), 2 x perforation for optional external antennas
ETHERNET	Intel i211 Supports Wake on LAN function 10/100/1000 MB/s operation
STORAGE INTERFACE	SATA III 6 GB/s interface, 2.5" device bay x 1
FRONT PANEL	(1) Power LED (1) Webcam (FHD) (1) Hard Disk LED (1) Microphone (1) Multi-touch LCD display
LEFT PANEL	(1) Power Button (1) SD Card Reader (2) USB 3.2 Gen 1 (1) Clear CMOS (1) Hole for optional antenna
BACK & BOTTOM PANEL	(1) VGA port (1) DC-in (1) HDMI 1.4b (1) RJ45 LAN (2) USB 2.0 port (2) Speakers (1) Microphone in LPT parallel port (optional) (1) Headphone jack COM port x 2 (optional) (1) Kensington Lock RJ45 COM port (optional) (2) USB 3.2 Gen 1 port RJ11 for cash drawer (optional) (1) Hole for optional antenna Vent
DIMENSIONS	19(L) x 12.6(W) x 1.7(H) inches
POWER	Input: 100 - 240V AC, 50/60 Hz, max 1.6A 65W 19V power supply Output: 19V, max 3.42A
ACCESSORIES	Quick Guide Driver DVD 65W power adapter Power cord Screws
EXPANSION SLOT	(1) M.2 MAX to 2280 Type BM
OS SUPPORT	Windows 10 (64 bit), Windows 11 (64 bit), Linux (64 bit)

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CHASSIS	Black/white chassis, Kensington Lock hole on back panel 100mm VESA mountable (stand can be removed to reveal screw holes) Dimensions: 19(L) x 12.6(W) x 1.7(H) inches Weight: 9.5 LBS (net) / 12.4 LBS (gross)
POWER SUPPLY	External 65W power adapter (fanless) AC input voltage: 100 - 240V, 50/60 Hz, max 1.6A Output: 19V DC, max 3.42A , max 65W
OPERATING SYSTEM	The system comes without an operating system installed. Compatibility: Windows 10, Windows 11, Linux 64 bit
PROCESSOR SUPPORT	Intel® Celeron® 3865U (ULV), i3-7100U/i5-7200U optional 14 nm structure, Kaby Lake-U platform (7th Gen Intel Core) CPU cores/threads: 2/2, L1/L2/L3 cache: 128 kb/512 kb/2048 kb CPU clock frequency: 1.8 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
FANLESS COOLING	Passive heatpipe cooling, no fan noise at all Suitable for noise sensitive environments Fanless, dust-free and virtually maintenance free
MEMORY SUPPORT	2 x 260 pin SODIMM slots Supports DDR4 2133 (PC4-17000) SDRAM at 1.2V Supports Dual Channel mode Supports a max. of 16GB per DIMM, up to 32GB total (2 x 16 GB) Supports two unbuffered DIMM module (no ECC or registered)
M.2 SLOT	M.2 2280 BM slot provides the following interfaces: PCI-Express Gen 3.0 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 42,60, or 80 mm. Supports M.2 SATA SSDs (with BM key) and M.2 PCI-E NVMe SSDs (with M key).
AUDIO	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
WIRED NETWORK	RJ45 connector supports Gigabit LAN at 10/100/1000 MB/s Intel i211 ethernet controller with MAC, PHY, PCIe interface Supports Wake on LAN (WOL) from S3, S4 modes Supports network boot by Preboot eXecution Environment (PXE)
WIRELESS NETWORK (WLAN)	Realtek RTL8821AE Connected with two internal antennas Supports 802.11 b/g/n/ac, 2.4/5 GHz band 1T1R Supports Bluetooth 4.1, 2.4 GHz (BT 4.0 for Linux)
CARD READER	Integrated card reader supports SD, SDHC, and SDXC memory flash cards
WEBCAM	Integrated full HD 2.0 Megapixel (1920 x 1080) webcam
INTEGRATED GRAPHICS	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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IP54 PROTECTED	The front panel is dust and splash water protected with protection class IP54
24/7 NONSTOP OPERATION	Hard disk must be approved for long term operation by manufacturer, keep ventilation holes clear
TOUCHSCREEN	19.5" LCD, 16:9 widescreen panel (1600 x 900 px), 1.44 Megapixel Capacitive touch panel with 10 point multi-touch, Stylus pen not supported Supports fingerprint input with gloves (PVC, cotton, cotton/linen)
BIOS	AMI BIOS in 8 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
STORAGE	Supports one 2.5" SATA hard disk or SSD drive, max height 12.5 mm Supports SATA III (6 GB/s bandwidth), SATA cable pre-installed
MICROPHONE/SPEAKERS	Front panel integrated with Electret Condenser Microphone and 2 x 2W speakers
ONBOARD CONNECTORS	Internal USB 2.0 type A connector eDP connector (Embedded DisplayPort) - occupied by display USB 2.0 headers x 3 (all occupied) Connector for optional COM/LPT (POS01/PCL71) Serial ATA connector (data/power)
BACK/BOTTOM CONNECTORS	(1) HDMI 1.4b port (video/audio) (1) VESA mount holes (remove stand to reveal) (1) VGA port (analog video, 15 pol) (1) Audio line out/headphones (1) RJ45 Gigabit LAN (1) Microphone input (3.5 mm) (2) COM/serial (1) DC input (5.5/2.5 mm) (2) USB 3.2 Gen 1 (1) LPT/parallel (PCL71/POS01) (2) USB 2.0 (1) Kensington Lock
SIDE CONNECTORS	(1) Power button (1) SD Card Reader (2) USB 3.2 Gen 1 (2) Perforation for optional WLAN/LTE antennas (7 mm)
INCLUDED ACCESSORIES	XPC installation guide External 65W/19V power adapter Driver DVD Power cord Screw pack
OPTIONAL ACCESSORIES	COM/LPT/RJ11 port adapter (PCL71/POS01) NFC module (PNFC03)
ENVIRONMENTAL CRITERIA	Operating temperature: 0 - 40°C Humidity: 10 - 90% (non condensing) Ventilation holes must be kept clear
CERTIFICATIONS	EMI: CE, RED, FCC, RCM, VCCI Other: RoHS, Energy Star v7.0, ErP Lot 3 Safety: CB, ETL 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) (4) 2014/53/EU related to Radio and Telecommunications Terminal Equipment (RED)

BIOS DOWNLOADS: https://global.shuttle.com/products/productsDownload?pn=P92U

SUPPORT LIST: https://global.shuttle.com/products/productsSupportList?pn=P92U

FAQ LIST: http://global.shuttle.com/support/faq

PRODUCT WARRANTY: https://www.shuttlecomputers.com/policies

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P92U Series

Front View and Left Side View

A	Webcam (Full HD)	**1**	Power Button
B	Microphone	**2**	Hole for optional antenna
C	Multi-touch LCD screen	**3**	Clear CMOS
D	Power LED	**4**	SD Card Reader
E	Hard Disk LED	**5**	USB 3.2 Gen 1 x 2

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P92U Series

Bottom View

A	Kensington lock	**F**	Hole for optional antenna x 2	**K**	Ventilation
B	COM port x 2 (optional)	**G**	DC-input	**L**	USB 3.2 Gen 1 x 2
C	LPT parallel port (optional)	**H**	VGA video output	**M**	HDMI video output
D	RJ45 COM port (optional)	**I**	USB 2.0 x 2	**N**	Audio Line-out
E	RJ11 (optional)	**J**	RJ45 Gigabit LAN	**O**	Microphone input

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

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P92U Series

EQUIPPED WITH INTEL® COMET LAKE-U

The P92U supports Intel® Comet Lake-U platform technology with an Intel® Celeron® 5205U dual core processor (Core™ i3-10110U/i5-10210U optional). It supports DDR4 2400 MHz memory (up to 64 GB) with Intel® Ultra HD 610 graphics for 4K/Ultra HD video playback.

TOUCH SCREEN

The 19.5" 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 P92U 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 P92U can easily connect to other commercial devices. Optional accessories offers COM, LPT, RJ11, or NFC for expansion.

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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ACCESSORY	PNFC03
DESCRIPTION	NFC module accessory kit, 13.56 MHz (frequency band) Supports NFC non-payment applications such as identification, membership rewards, and loyalty points
COMPATIBILITY	Windows 10 64 bit

ACCESSORY	PCL71
DESCRIPTION	The PCL71 is compatible with the P9 and X50 series of All-in-one PCs and can provide RS232/RS422/RS485 ports (supports 0V/5V/12V) and one parallel (LPT) port on the back panel.
ITEMS INCLUDED	Printed Circuit board x 1 (PCB), screws x 4, ribbon cable x 1, multi-language quick installation guide
EXTERNAL PORT(S)	LPT x 1, COM1 (RS232/RS422/RS485) x 1, COM2 (RS232) x 1 Supports 0V/5V/12V

ACCESSORY	POS01
DESCRIPTION	The POS01 provides an additional RJ11 type DIO port (12V/24V) and four COM ports (RS232/RS422/RS485 x 1, RJ45 type RS232 x 1, RJ45 type RS232/RS422/RS485 x 1)
ITEMS INCLUDED	Printed Circuit Board (PCB), screws, power connector cable (4 pin), ribbon cable, quick guide
EXTERNAL PORT(S)	LPT x 1, COM1 (RS232/RS422/RS485 x 1), COM2 (RS232 x 1), COM RJ45 port x 2, DIO RJ11 port x 1
REMARKS	All COM ports are 5/12V compatible

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