

2019

PRODUCT GUIDE

Superb for Home, Work, Business and Industrial applications

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Shuttle®

XPC

| NANO | SLIM | CUBE | ALL IN ONE



COMPANY PROFILE

From its humble beginning in 1983 as a motherboard manufacturer, Shuttle has been devoted to innovating PC products over the years. In 2001, Shuttle built its reputation as the creator of the world's first Small-form-factor (SFF) computers, and received the global success with its XPC brand. Today, Shuttle's product development has broadened to consist of hardware and software-integrated solutions, including Mini PCs, Notebook PCs, Face Recognition, Smart Home, Smart Education, Smart Long-Term Care, and is actively targeting deployments at cloud computing and IOT applications for vertical business market.

Based upon 35 years of experience in PC technology, Shuttle is now a SFF PC market leader that offers a complete line of computer solutions, including XPC Cube (13L), XPC Slim (3L/1.3L), XPC Nano (>1.3L) and XPC All-in-One PCs. With unique features of silent cooling, energy efficiency, long-term operation and broad temperature spectrum, Shuttle PCs are widely being used for full digital signage applications such as digital advertising, digital menu boards, self-service kiosks and POS systems.

Headquartered in Taiwan, Shuttle has subsidiary offices located throughout the United States, Germany, Japan and China, and has established distribution channels in more than 30 countries and regions. Shuttle is a multinational company providing best-in-class sales and services for customers around the world.



AREAS OF APPLICATION



DIGITAL SIGNAGE

Whether it's in retail, catering, healthcare, banking or other public areas, Shuttle supplies the right player for product presentations, promotional videos and information release in every scenario. Choosing a platform with reliable, proven technology is as important as choosing its software system. With ranges of single, multiple and large-scale display options, Shuttle Mini-PCs enable productivity around industrial-grade performance at a compelling price.

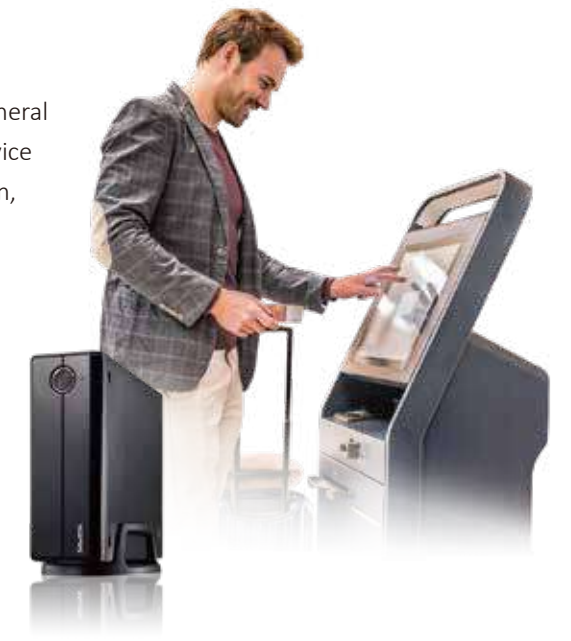
POS

Running a store is not just about enthusiasm, and it is important to choose a POS system that supports every aspect of your daily operations. Shuttle's AIO PC adds advantages of broad temperature tolerance, plus IP54 dust and waterproofing to meet maximum stability for 24/7 operational requirements; it's the right choice for your POS deployment.



KIOSK

Under the expansion of network and peripheral technologies, today's kiosks have become a service platform involves multimedia and information, even become a part of sales channel to serve as vending, self-checkout lanes and e-ticketing. With its silent cooling design, every Shuttle model is certified by 24/7 operation. Thanks to the compact size that fits in limited spaces, plus added features such as broad temperature tolerances and rich peripheral interfaces, making it ideal for system integration in kiosks – even an 8-port configuration in such tiny machine is possible.



WORKSTATION

Modern workstations don't need to be big, bulky machines, but can be compact devices without compromising performance. Shuttle's Cube PCs come with a 13-liter stylish chassis that provide strong expansion capability, storage capacity and large-format graphics support to tailor your specific needs. Thanks to the exclusive I.C.E.2 cooling technology, these machines remain stable and run extremely quiet for 24/7 operations. With a high level of capability and flexibility, who needs a traditional tower PC anyway?



OFFICE

A Mini-PC is smaller than a traditional tower but with the same expandable capacity. That means a space-saving system can save valuable room on your desk. As a SFF PC market leader, Shuttle offers full mini-PC solutions across a wide choice of processors, storage capabilities, I/O connectivity as well as silent cooling design to perfect your work efficiency. Whatever your requirements, we have the right model for you.



XH270

3-LITER PC PROVIDES SPACE FOR UP TO FOUR HARD DRIVES

One of the biggest concerns about mini-PC is that generally with less room for expandability. However, with Shuttler's XPC Slim XH270, users with large storage needs are specially catered without having to sacrifice the smaller footprint that a mini PC offers. The XH270 is a high-performance 3-liter XPC slim which supports both Intel® Kaby Lake and Skylake Core™ i 65W processors. The XH270 can support 4K UHD content playback on three screens via DisplayPort, HDMI and VGA interface. To meet the needs of connectivity for vertical/commercial use, the XH270 provides multiple I/O ports and high-speed storage interface, including USB2.0, USB3.1 Gen1, SATA 6Gbps, M.2 slot, plus supports great storage expansion to hold up to four 2.5" HDDs/SSDs.



FEATURES

- Supports Intel® 6th/7th Gen Core™ i, Pentium® & Celeron® processors
- Large storage space up to four 2.5" HDDs/SSDs
- Supports three independent displays
- Two M.2 slots for strong expansion capacity
- Dual Intel® Gigabit LAN Network
- 24/7 certified in 0-50°C environments

ACCESSORY

WLN-M

WLAN-AC / BLUETOOTH COMBO KIT

The kit includes a M.2 2230 card, two antennas and cables, supports 802.11ac/b/g/n WLAN and Bluetooth 4.0 as well.



PS01

VERTICAL STAND FOR 3-LITER PCs

The stand is designed for 3-liter slim PCs, providing maximized stability when placing the model in the vertical position.

PV02

VESA MOUNT

Designed for 3-liter slim PCs, the VESA mount allows for installation on to walls or monitors which provides space savings and the flexibility for diverse applications.



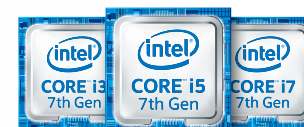


XH110G

POWERFUL 3-LITER PC PACKS

STRONG EXPANDABILITY

Equipped with Intel® 6th/7th Gen Skylake and Kaby Lake-Based Processors, the XH110G represents an excellent combination of performance and expandability in a compact design. Thanks to its PCI-Ex16 slot, the XH110G is able to install various add-on cards such as multi-display card, video capture card, graphics card or more for professional applications. The XH110G is also noteworthy for its feature-rich connectivity; it provides six USB 2.0, two USB 3.1 Gen 1, one VGA, one HDMI and two M.2 slots for various options. Powerful, expandable, and feature rich, the XH110G is the best-in-class choice for video streaming, Digital Signage, Multi-display, Surveillance applications.



FEATURES

- Supports Intel® 6th/7th Gen Core™ i, Pentium® & Celeron® processors
- Supports two independent displays
- One PCI-Ex16 slot for graphics card expansion
- Two M.2 slots for strong expansion capacity
- VESA mount included for versatile integration
- 24/7 certified in 0-50°C environments

ACCESSORY

WLN-M

WLAN-AC / BLUETOOTH COMBO KIT

The kit includes a M.2 2230 card, two antennas and cables, supports 802.11ac/b/g/n WLAN and Bluetooth 4.0 as well.



PS01

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XC60J

FANLESS 3-LITER PC WITH UP TO 8 COM PORTS

The XC60J is a 3-liter fanless PC with robust connectivity powered by energy-efficient Intel® Apollo Lake processor. The unique fanless design makes the system operation extremely quiet, energy-efficient, and reliable. With integrated Intel® HD graphics, the XC60J can support 4K UHD content playback and deliver dual displays via HDMI and VGA outs. Thanks to its built-in five COM ports, the XC60J can be extended to up to 8 COM ports to boost strong peripheral connectivity for POS, vending machine and Kiosk applications.



FANLESS



NONSTOP



COM x 8

FEATURES

- Built-in 8 COM ports to connect peripherals
- Supports two independent displays
- Supports 4K UHD playback
- Two M.2 slots for strong expansion capacity
- Fanless cooling design
- 24/7 certified in 0-40°C environments

ACCESSORY

WLN-M

WLAN-AC / BLUETOOTH COMBO KIT

The kit includes a M.2 2230 card and two antennas with cables, which supports 802.11ac/b/g/n WLAN as well as Bluetooth 4.0.



PS01

VERTICAL STAND FOR 3-LITER PCs

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PV02

VESA MOUNT

Designed for 3-liter slim PCs, the VESA mount allows for installation on to walls or monitors which provides space savings and the flexibility for diverse applications.



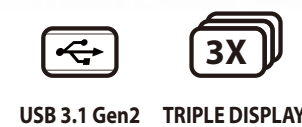
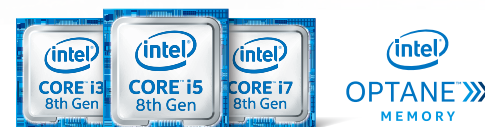


Model		XH310/XH310V	XH270	XH110V/XH110	XH110G	XC60J
Cooling system		Smart fan	Smart fan	Smart fan	Smart fan	Fanless
CPU		Intel® CoffeeLake LGA1151v2 socket Core i3/i5/i7, Pentium, Celeron 65W processor	Intel® KabyLake/Skylake LGA1151 socket Core i3/i5/i7, Pentium, Celeron 65W processor	Intel® KabyLake/Skylake LGA1151 socket Core i3/i5/i7, Pentium, Celeron 65W processor	Intel® KabyLake/Skylake LGA1151 socket Core i3/i5/i7, Pentium, Celeron 65W processor	Intel® Celeron J3355
Chipset		Intel® H310	Intel® H270	Intel® H110	Intel® H110	Integrated in CPU
Video Engine Processor		Intel® UHD Graphics series	Intel® HD Graphics series	Intel® HD Graphics series	Intel® HD Graphics series	Intel® HD Graphics 500
Max Resolution		HDMI 4096x2160@60Hz DisplayPort 4096x2160@60Hz VGA 1920x1080@60Hz	HDMI 3840x2160@30Hz DisplayPort 4096x2160@60Hz VGA 1920x1080@60Hz	HDMI 3840x2160@30Hz DisplayPort 4096x2160@60Hz	HDMI 3840x2160@30Hz VGA 1920x1080@60Hz	HDMI 3840x2160@30Hz VGA 1920x1080@60Hz
Memory		2 x DDR4 2666/2400 MHz, Max. 32GB	2 x DDR4 2400/2133 MHz, Max. 32GB	2 x DDR3L 1600 MHz, Max. 32GB	2 x DDR4 2400/2133 MHz, Max. 32GB	2 x DDR3L 1866 MHz, Max. 8GB
Storage		1 x 2.5" HDD/SSD (max. 12.5 mm) 1 x Slim ODD (12.7 mm)	4 x 2.5" HDD/SSD (max. 12.5mm)	1 x 2.5" HDD/SSD (max. 12.5 mm) 1 x Slim ODD (12.7 mm)	1 x 2.5" HDD/SSD (max. 12.5 mm)	1 x 3.5"/2.5" HDD/SSD
Expansion Slot		1 x M.2 2280, M Key 1 x M.2 2230, E Key	1 x M.2 2280, M Key 1 x M.2 2230, E Key	1 x M.2 2280, M Key 1 x M.2 2230, E Key	1 x M.2 2280, M Key 1 x M.2 2230, E Key 1 x PCIe 3.0/2.0 x16	1 x M.2 2280, M Key 1 x M.2 2230, E Key
Video Output	HDMI Port	1 x HDMI 2.0	1 x HDMI 1.4	1 x HDMI 1.4	1 x HDMI 1.4	1 x HDMI 1.4
	DisplayPort	1	1	1	-	-
	VGA Port	1	1	Optional (PVG01)	1	1
I/O Port	USB 3.1 Gen1/Gen2 (Front)	2/-	2/-	2/-	2/-	2/-
	USB 2.0 (Front)	2	2	2	2	2
	USB 3.1 Gen1/Gen2 (Rear)	2/-	2/-	2/-	-	-
	USB 2.0 (Rear)	2	2	2	4	2
	COM Port	1 x RS232 1 x RS232/422/485, Support 5V/12V	1 x RS232	1 x RS232 1 x RS232/422/485, Support 5V/12V	-	7 x RS232 1 x RS232/422/485, Support 5V/12V
	PS/2 Port	-	-	1	-	-
	Line in/Line out/Mic in	1/2/2	1/2/2	1/2/2	-/1/1	-/1/1
Network	LAN	2 x Intel® Gigabit LAN	2 x Intel® Gigabit LAN	2 x Intel® Gigabit LAN	1 x Intel® Gigabit LAN	1 x Intel® Gigabit LAN
	Wifi	Optional (WLN-M)	Optional (WLN-M)	Optional (WLN-M)	Optional (WLN-M)	Optional (WLN-M)
VESA		Optional (PV02)	Optional (PV02)	Optional (PV02)	Bracket included	Optional (PV02)
Dimension (L/W/H) mm		240 x 200 x 72	240 x 200 x 72	240 x 200 x 72	250 x 200 x 78	238 x 200 x 72
Weight	NW (kg)	2.2	2	2.2	1.73	2.2
	GW (kg)	3.5	3.3	3.5	3.37	3.5
Certification		CB, CE, BSMI, ETL, FCC, RCM, RoHS, VCCI	CB, CE, BSMI, ETL, FCC, RCM, VCCI, RoHS	CB, CE, BSMI, ETL, FCC, RCM, RoHS	CB, CE, BSMI, ETL, FCC, RCM, VCCI, RoHS	CB, CE, BSMI, ETL, FCC, RCM, VCCI, RoHS
Operating Temperature (°C)		0~50	0~50	0~50	0~50	0~40
Chassis		Metal	Metal	Metal	Metal	Metal
Power Supply		19V/4.74A 90W external adapter	19V/6.32A 120W external adapter	19V/4.74A 90W external adapter	19.5V/9.23A 180W external adapter	19V/3.42A 65W external adapter
Operating System		Windows 10 64bit, Linux	Windows 10 64bit / 7 64bit (Skylake), Linux	Windows 10 64bit / 7 64bit (Skylake), Linux	Windows 10 64bit / 7 64bit (Skylake), Linux	Windows 10 64bit, Linux
Optional Accessories		PS01, PV02, PHD4, WLN-M	PS01, PV02, PHD4, WLN-M	PS01, PV02, PHD4, PVG01, WLN-M	WLN-M, PS01	WLN-M, PS01, PV02



DH370

RUGGED 1-LITER 4K PC FOR POWERFUL MULTI-DISPLAY



Shuttle DH370 puts full-fledged performance into a lightweight slim PC. Featuring the latest 8th Gen Intel® Coffee Lake platform with up to 6 cores processors and DDR4-2666 memory, the DH370 runs even faster, more powerful and more efficient compare to previous generation. With integrated Intel® UHD graphics engine, the DH370 can deliver incredible 4K UHD content for up to three screens. The DH370 also features four USB 3.1 Gen 2 ports and other convenient connectivity interface, including four USB 3.1 Gen 1, two COM ports and two M.2 expansion slots for NVMe SSDs and a WLAN module.

FEATURES

- Supports Intel® 8th Generation Coffee Lake processor family
- Supports Intel® Optane™ memory technology
- Supports triple 4K UHD display via HDMI x 1 and DisplayPort x 2
- Four USB 3.1 Gen 2 for high speed transmission
- Supports Intel® CNVi module
- Dual Intel® Gigabit LAN interfaces
- 24/7 certified in 0-50°C environments

ACCESSORY

WLN-M WLAN-AC/BLUETOOTH COMBO KIT

The kit includes a M.2 2230 card, two antennas and cables, which supports 802.11ac/b/g/n WLAN and Bluetooth 4.0 as well.



PVG01 VGA PORT FOR XPC SLIM PCs

Compatible with Shuttle XPC slim PCs, the VGA output replaces one COM port, meaning only one COM port can be used while PVG01 is in use.



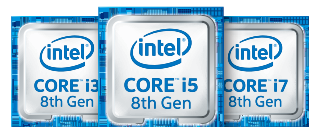
PS02 VERTICAL STAND FOR 1-LITER PCs

The stand is designed for 1-liter slim PCs, providing maximized stability when placing the model in the vertical position.

DH310

THE ENTRY-LEVEL PC WITH COFFEE LAKE PLATFORM

Shuttle DH310 is the entry-level model supporting Intel® 8th Generation Coffee Lake platform will feature new core processors with up to 6 cores and 12 threads, comes with dual DDR4-2666 DIMM socket and integrated Intel® UHD graphics engine to deliver speedy and smooth performance in faster rendering and smoother video playback. Carry on the good tradition of Shuttle XPC Slim, the DH310 has great connectivity and expansion capacity with rich I/O interface, including one HDMI 2.0, one DisplayPort, four USB2.0, four USB 3.1 Gen 1, dual COM Ports, as well as one M.2 2280 Type M and one M.2 2230 Type E to meet diverse application demanding.



FEATURES

- Supports Intel® 8th Generation Coffee Lake processor family
- Supports dual 4K UHD displays via HDMI and DisplayPort
- Two M.2 slots for strong expansion capacity
- Dual Intel® Gigabit LAN interfaces
- 24/7 certified in 0-50°C environments

ACCESSORY



WLN-M WLAN-AC/BLUETOOTH COMBO KIT

The kit includes a M.2 2230 card, two antennas and cables, which supports 802.11ac/b/g/n WLAN and Bluetooth 4.0 as well.

PVG01

VGA PORT FOR XPC SLIM PCs

Compatible with Shuttle XPC slim PCs, the VGA output replaces one COM port, meaning only one COM port can be used while PVG01 is in use.



PS02

VERTICAL STAND FOR 1-LITER PCs

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DH02U series

1-LITER SLIM PC FOR HIGH-DEMAND PERFORMANCE

To meet the escalating high performance demands of today's digital signage market, Shuttle now is offering its first four HDMI output PC- DH02U series. With integrated 4 x HDMI 2.0, the DH02U series supports four 4K UHD displays. Equipped with exceptional NVIDIA GeForce graphics, the DH02U series delivers a breakthrough performance for real-time 4K and 3D rendering. It also provides a set of rich I/O configurations, including 2 x M.2 slots for SSD and WiFi modules, RJ45 for Gigabit LAN, as well as direct RS232 and multiple USB options.

FEATURES

- 4 processor SKUs for option- Intel® Core™ i7-7500U/i5-7200U/i3-7100U 、 Celeron® 3865U
- Built-in NVIDIA GeForce® GTX 1050 4GB graphics
- Supports four 4K UHD displays via four HDMI 2.0
- Two dual channel DDR4 memory slots
- Two M.2 slots for strong expansion capacity
- VESA mount included for versatile integration
- 24/7 certified in 0-50°C environments



ACCESSORY

WLN-M

WLAN-AC/BLUETOOTH COMBO KIT

The kit includes a M.2 2230 card and two antennas with cables, which supports 802.11ac/b/g/n WLAN as well as Bluetooth 4.0.



PS02

VERTICAL STAND FOR 1-LITER PCs

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4G LTE



TRIPLE DISPLAY



SIM ADAPTER



VESA MOUNT

DL10J

FANLESS 1-LITER PC FOR IOT-BASED DIGITAL SIGNAGE

Powered by new generation of Intel® Gemini Lake Celeron® J4005 processor, the 1-liter DL10J with fanless and low power designs can support dual 4K UHD content playback for digital signage applications. With the built-in M.2 2230 expansion slot, the DL10J supports the industrial-grade SIM card functionality, which enables seamlessly 4G LTE broadband connection for commercial and IOT applications in network-critical environments.

FEATURES

- Intel® Gemini Lake low-power consumption processor
- Supports three independent displays
- Supports dual 4K UHD playback via HDMI and DisplayPort
- Supports SIM card kit for 4G LTE connectivity
- Fanless cooling design
- VESA mount included for versatile integration
- 24/7 certified in 0-40°C environments

ACCESSORY

PS02

VERTICAL STAND FOR 1-LITER PCs

The stand is designed for 1-liter slim PCs, providing maximized stability when placing the model in the vertical position.



WWN01

4G/LTE NETWORK EXTENSION KIT

The kit includes a riser adapter card, two antennas with cables to support 4G/LTE module plus SIM card for mobile network.

- 4G/LTE module is not included





Model		DH02U series	DH370	DH310	DH310S	DH270	DQ170
Cooling system		Smart fan	Smart fan	Smart fan	Smart fan	Smart fan	Smart fan
CPU		Intel® Celeron 3865U or Intel® i3-7100U/i5-7200U/i7-7500U	Intel® CoffeeLake LGA1151v2 socket Core i3/i5/i7, Pentium, Celeron 65W processor	Intel® CoffeeLake LGA1151v2 socket Core i3/i5/i7, Pentium, Celeron 65W processor	Intel® CoffeeLake LGA1151v2 socket Core i3/i5/i7, Pentium, Celeron 65W processor	Intel® KabyLake/Skylake LGA1151 socket Core i3/i5/i7, Pentium, Celeron 65W processor	Intel® KabyLake/Skylake LGA1151 socket Core i3/i5/i7, Pentium, Celeron 65W processor
Chipset		Integrated in CPU	Intel® H370	Intel® H310	Intel® H310C	Intel® H270	Intel® Q170 support vPro™
Video Engine Processor		NVIDIA GeForce GTX 1050 GPU 4GB	Intel® UHD Graphics series	Intel® UHD Graphics series	Intel® UHD Graphics series	Intel® HD Graphics series	Intel® HD Graphics series
Max Resolution		HDMI 4096x2160@60Hz 7680x4320@60Hz in Surround Mode	HDMI 4096x2160@60Hz DisplayPort 4096x2160@60Hz	HDMI 4096x2160@60Hz DisplayPort 4096x2160@60Hz	HDMI 3840x2160@30Hz DisplayPort 4096x2160@60Hz	HDMI 4096x2160@60Hz	HDMI 3840x2160@30Hz DisplayPort 4096x2160@60Hz
Memory		2 x DDR4 2133 MHz, Max. 32GB	2 x DDR4 2666/2400 MHz, Max. 32GB	2 x DDR4 2666/2400 MHz, Max. 32GB	2 x DDR4 2400 MHz, Max. 32GB	2 x DDR4 2400/2133 MHz, Max. 32GB	2 x DDR3L 1600 MHz, Max. 32GB
Storage		1 x 2.5" HDD/SSD (max. 12.5 mm)	1 x 2.5" HDD/SSD (max. 12.5 mm) 1 x SD card	1 x 2.5" HDD/SSD (max. 12.5 mm) 1 x SD card	1 x 2.5" HDD/SSD (max. 12.5 mm) 1 x SD card	1 x 2.5" HDD/SSD (max. 12.5 mm) 1 x SD card	1 x 2.5" HDD/SSD (max. 12.5 mm) 1 x SD card
Expansion Slot		1 x M.2 2280, M Key 1 x M.2 2230, E Key	1 x M.2 2280, M Key 1 x M.2 2230, E Key	1 x M.2 2280, M Key 1 x M.2 2230, E Key	1 x M.2 2280, M Key 1 x M.2 2230, E Key	1 x M.2 2280, M Key 1 x M.2 2230, E Key	1 x M.2 2260/2242, M Key 1 x M.2 Half size Mini-PCIe
Video Output	HDMI Port	4 x HDMI 2.0	1 x HDMI 2.0	1 x HDMI 2.0	1 x HDMI 1.4	1 x HDMI 2.0 , 2 x HDMI 1.4	1 x HDMI 1.4
	DisplayPort	-	2	1	1	-	2
	VGA Port	-	Optional (PVG01)	Optional (PVG01)	Optional (PVG01)	Optional (PVG01)	Optional (PVG01)
I/O Port	USB 3.1 Gen1/Gen2 (Front)	2/-	2/2	2/-	2(Include Type C x 1)/-	3(Include Type C x 1)/-	2/-
	USB 2.0 (Front)	2	-	2	2	-	2
	USB 3.1 Gen1/Gen2 (Rear)	2/-	2/2	2/-	2/-	-	2/-
	USB 2.0 (Rear)	-	-	2	2	4	2
	COM Port	1 x RS232	1 x RS232 1 x RS232/422/485, Support 5V/12V	1 x RS232 1 x RS232/422/485, Support 5V/12V	-	1 x RS232 1 x RS232/422/485, Support 5V/12V	1 x RS232 1 x RS232/422/485, Support 5V/12V
	PS/2 Port	-	-	-	-	-	-
Line in/Line out/Mic in		-/1/1	-/1/1	-/1/1	-/1/1	-/1/1	-/1/1
Network	LAN	1 x Intel® Gigabit LAN	2 x Intel® Gigabit LAN	2 x Intel® Gigabit LAN	1 x Realtek Gigabit LAN	2 x Intel® Gigabit LAN	2 x Intel® Gigabit LAN
	Wifi	Optional (WLN-M)	Optional (WLN-M)	Optional (WLN-M)	Optional (WLN-M)	Optional (WLN-M)	Optional (WLN-P)
VESA		Bracket included	Bracket included	Bracket included	Optional (PV04)	Bracket included	Bracket included
Dimension (L/W/H) mm		190 x 165 x 43	190 x 165 x 43	190 x 165 x 43	190 x 165 x 43	190 x 165 x 43	190 x 165 x 43
Weight	NW (kg)	2.2	TBC	1.3	1.3	1.3	1.3
	GW (kg)	3.5	TBC	2.05	2.05	2.05	2.05
Certification		CB, CE, BSMI, ETL, FCC, RCM, RoHS, VCCI	CB, CE, BSMI, ETL, FCC, RCM, RoHS, VCCI	CB, CE, BSMI, ETL, FCC, RCM, RoHS, VCCI	CB,CE,BSMI,ETL,FCC,RCM,RoHS,VCCI	CB, CE, BSMI, ETL, FCC, RCM, VCCI, RoHS	CB, CE, BSMI, ETL, FCC, RCM, RoHS
Operating Temperature (°C)		0~50	0~50	0~50	0~50	0~50	0~50
Chassis		Metal	Metal	Metal	Metal	Metal	Metal
Power Supply		19V/6.32A 120W external adapter	19V/4.74A 90W external adapter	19V/4.74A 90W external adapter	19V/4.74A 90W external adapter	19V/4.74A 90W external adapter	19V/4.74A 90W external adapter
Operating System		Windows 10 64bit, Linux	Windows 10 64bit, Linux	Windows 10 64bit, Linux	Windows 10 64bit, Linux	Windows 10 64bit / 7 64bit (Skylake), Linux	Windows 10 64bit / 7 64bit (Skylake), Linux
Optional Accessories		WLN-M, PS02	WLN-M, PVG01, PS02	WLN-M, PVG01, PS02	WLN-M, PVG01, PS02	WLN-M, PVG01, PS02	WLN-P, PVG01, PS02



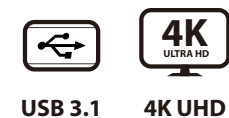
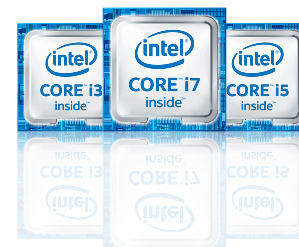
Model	DH110	DH110SE	DS77U series	DS68U	DX30	DL10J	
Cooling system	Smart fan	Smart fan	Fanless	Fanless	Fanless	Fanless	
CPU	Intel® Kabylake/Skylake LGA1151 socket Core i3/i5/i7, Pentium, Celeron 65W processor	Intel® Kabylake/Skylake LGA1151 socket Core i3/i5/i7, Pentium, Celeron 65W processor	Intel® Celeron 3865U or Intel® i3-7100U/i5-7200U/i7-7500U	Intel® Celeron 3855U	Intel® Celeron J3355	Intel® Celeron J4005	
Chipset	Intel® H110	Intel® H110	Integrated in CPU	Integrated in CPU	Integrated in CPU	Integrated in CPU	
Video Engine Processor	Intel® HD Graphics series	Intel® HD Graphics series	Intel® HD Graphics	Intel® HD Graphics	Intel® HD Graphics	Intel® HD Graphics	
Max Resolution	HDMI 3840x2160@30Hz DisplayPort 4096x2160@60Hz	HDMI 3840x2160@30Hz DisplayPort 4096x2160@60Hz	HDMI 3840x2160@30Hz DisplayPort 4096x2160@60Hz	HDMI 3840x2160@30Hz VGA 1920x1080@60Hz	HDMI 3840x2160@30Hz DisplayPort 4096x2160@60Hz	HDMI 3840x2160@30Hz DisplayPort 4096x2160@60Hz VGA 1920x1080@60Hz	
Memory	2 x DDR3L 1600 MHz, Max. 32GB	2 x DDR4 2400/2133 MHz, Max. 32GB	2 x DDR4 2133 MHz, Max. 32GB	2 x DDR3L 1600 MHz, Max. 32GB	2 x DDR3L 1866 MHz, Max. 8GB	2 x DDR4 2400 MHz, Max. 8GB	
Storage	1 x 2.5" HDD/SSD (max. 12.5 mm) 1 x SD card	1 x 2.5" HDD/SSD (max. 12.5 mm) 1 x SD card	1 x 2.5" HDD/SSD (max. 12.5 mm) 1 x SD card	1 x 2.5" HDD/SSD (max. 12.5 mm) 1 x SD card	1 x 2.5" HDD/SSD (max. 12.5 mm) 1 x SD card	1 x 2.5" HDD/SSD (max. 12.5 mm) 1 x SD card	
Expansion Slot	1 x M.2 2260, M Key 1 x M.2 2230, E Key	1 x M.2 2260, M Key 1 x M.2 2230, E Key	1 x M.2 2280, M Key 1 x M.2 2230, E Key	1 x M.2 2280, M Key 1 x M.2 2230, E Key	1 x M.2 2280, M Key 1 x M.2 2230, E Key	1 x M.2 2280, M Key 1 x M.2 2230, E Key	
Video Output	HDMI Port	1 x HDMI 1.4	1 x HDMI 1.4	2 x HDMI 1.4	1 x HDMI 1.4	1 x HDMI 1.4	
	DisplayPort	1	1	1	1	1	
	VGA Port	Optional (PVG01)	-	-	1	Optional (PVG01)	
I/O Port	USB 3.1 Gen1/Gen2 (Front)	2/-	2/-	2/-	2/-	2/-	
	USB 2.0 (Front)	2	2	2	2	-	
	USB 3.1 Gen1/Gen2 (Rear)	2/-	-	-	-	-	
	USB 2.0 (Rear)	-	4	2	2	4	
	COM Port	1 x RS232 1 x RS232/422/485, Support 5V/12V	-	1 x RS232 1 x RS232/422/485, Support 5V/12V	1 x RS232 1 x RS232/422/485, Support 5V/12V	1 x RS232 1 x RS232/422/485, Support 5V/12V	1 x RS232 1 x RS232/422/485, Support 5V/12V
	PS/2 Port	1	-	-	-	1	-
	Line in/Line out/Mic in	-/1/1	-/1/1	-/1/1	-/1/1	-/1/1	-/1/1
Network	LAN	2 x Intel® Gigabit LAN	1 x Realtek Gigabit LAN	2 x Intel® Gigabit LAN	2 x Intel® Gigabit LAN	1 x Intel® Gigabit LAN	
	Wifi	Optional (WLN-M)	Optional (WLN-M)	Realtek 802.11 b/g/n	Realtek 802.11 b/g/n	Realtek 802.11 b/g/n	
VESA	Bracket included	Optional (PV04)	Bracket included	Bracket included	Bracket included	Bracket included	
Dimension (L/W/H) mm	190 x 165 x 43	190 x 165 x 43	200 x 165 x 39.5	200 x 165 x 39.5	190 x 165 x 43	190 x 165 x 43	
Weight	NW (kg)	1.3	1.3	1.3	1.4	1.5	
	GW (kg)	2.05	2.05	2.05	2.1	2.07	
Certification	CB, CE, BSMI, ETL, CCC, FCC, RCM, RoHS	CB, CE, BSMI, ETL, CCC, FCC, RCM, VCCI, RoHS	CB, CE, BSMI, ETL, FCC, RCM, RoHS, VCCI, R&TTE	CB, CE, BSMI, ETL, FCC, RCM, RoHS, R&TTE, VCCI	CB, CE, BSMI, ETL, FCC, RCM, RoHS, R&TTE, VCCI	CB, CE, BSMI, ETL, FCC, RCM, RoHS, VCCI, RED	
Operating Temperature (°C)	0~50	0~50	0~40	0~40	0~40	0~40	
Chassis	Metal	Metal	Metal + Plastic	Metal + Plastic	Metal	Metal	
Power Supply	19V/4.74A 90W external adapter	19V/4.74A 90W external adapter	19V/3.42A 65W external adapter	19V/3.42A 65W external adapter	19V/2.1A 40W external adapter	19V/2.1A 40W external adapter	
Operating System	Windows 10 64bit / 7 64bit (Skylake), Linux	Windows 10 64bit / 7 64bit (Skylake), Linux	Windows 10 64bit, Linux	Windows 10 64bit / 7 64bit (Skylake), Linux	Windows 10 64bit, Linux	Windows 10 64bit, Linux	
Optional Accessories	WLN-M, PVG01	WLN-M, PS02	-	-	PS02, PVG01	PS02, WWN01	



NC03U ^{series}

A PALM-SIZED VERSATILE 4K PC

The NC03U series is available with four different processors including Intel® Celeron® and Core™ i3/i5/i7. With just 42mm tall, the case of NC03U series can accommodate one 2.5" HDD (up to 15mm) to provide a flexible storage space. The NC03U offers a wealth of connectors and expansion slots with HDMI, DisplayPort, USB3.1 Gen1, audio and M.2 interfaces included. The NC03U is also supplied with a card reader, WLAN, Gigabit Ethernet and even a serial interface. Works with high-resolution monitors, you can use this model as your home media center, office computer or a platform for basic digital signage applications.



FEATURES

- 4 processor SKUs for option- Intel® Core™ i7-7500U/i5-7200U/i3-7100U \ Celeron® 3865U
- Supports dual independent display
- Supports dual 4K UHD playback via HDMI and DisplayPort
- Supports up to 15mm 2.5-inch Hard Drive
- VESA mount ready
- 24/7 certified in 0-40°C environments



NS02 series

FANLESS 0.5-LITER ANDROID PC FOR BASIC DIGITAL SIGNAGE

The Shuttle XPC nano NS02A/E is one of the most affordable models of Shuttle XPC family made for digital signage applications. The NS02 series is equipped with Rockchip Octa-Core 1.5 GHz processor, built-in DDR3L 2GB low-voltage memory. It not only supports Full HD playback capability but also built-in HDMI 2.0 video output is able to support 4K Ultra HD at 60Hz. In addition, the NS02E can support PoE (Power over Ethernet), allowing users easily to do on-site installation without any wire and AC adapter. The NS02 series comes with pre-installed digital signage software that user can easily manage the signage content through their own mobile devices.



FEATURES

- Supports HDMI2.0 with 4K ultra HD video output
- Supports 2.5" SATA HDD/SSD and SD card Reader
- Built-in 2G memory and 16G eMMC
- Built-in 10/100/1000 Mbps Ethernet with PoE (NS02E only)
- 802.11b/g/n and Bluetooth 4.0 combo
- Ultra SFF & 0.5L size
- Android 5.1.1



X1

ULTRA COMPACT PC FOR POWERFUL GAMEPLAY

The Shuttle X1 has a ultra-compact and stunning design powered by the Intel® Kaby Lake-H processor with NVIDIA GeForce GTX 1060 graphics to make this mini-computer capable of running VR games. Supports low voltage 1.2V DDR4-2400 dual-channel memory up to 32GB, it effectively reduces overall power consumption and delivers 4K ultra-high resolution for total immersion. This model supports 802.11ac WiFi, Bluetooth 4.2, a plenty of I/O ports of USB2.0 and USB3.0, the rear panel supports up to five independent display outputs for ultimate group play. With Intel® Optane™ Memory Technology boots the system to deliver fast, smooth, and power-efficient gaming experience.



FEATURES

- Intel® 7th Generation Core™ i7 / Core™ i5 processor
- Equipped with NVIDIA GeForce GTX 1060 3GB graphics
- Supports Intel® Optane™ memory technology
- Supports five independent displays (HDMI x 3 + DisplayPort x 1 + Type-C x 1)
- Supports M.2 2280 SSD, SATA or PCIE
- Built-in (4)USB 2.0, (4)USB 3.1 Gen 1, (1)RJ45, (1)Phone jack



www.shuttle.com



Model		NC03U	NC03U3/U5/U7	NS02A	NS02E	X1
CPU		Intel® Celeron 3865U	Intel® Core™ i3-7100U/i5-7200U/i7-7500U	Rockchip RK3368 Octa Core 1.5GHz (ARM Cortex-A53)		Intel® Core™ i5-7300HQ/i7-7700HQ
Video Engine Processor		Intel® HD Graphics 610	Intel® HD Graphics 620	-		NVIDIA GeForce GTX 1060 GPU 3GB
Max Resolution		HDMI 3840x2160@30Hz DisplayPort 4096x2160@60Hz		HDMI 3840x2160@60Hz		HDMI 3840x2160@30Hz DisplayPort 4096x2160@60Hz USB Type-C 3840x2160@30Hz
Memory		2 x DDR4 2133MHz, Max. 32GB		2GB DDR3L onboard		2 x DDR4 2400MHz, Max. 32GB
Storage		1 x 2.5" HDD/SSD (max. 15 mm) 1 x SD card		16GB eMMC onboard 1 x 2.5" HDD/SSD (max. 7 mm) 1 x SD card		1 x 2.5" HDD/SSD (max. 9.5 mm) 1 x SD card
Expansion Slot		1 x M.2 2280, M Key 1 x M.2 2230, E Key		-		1 x M.2 2280, M Key 1 x M.2 2230, E Key
Video Output	HDMI Port	1 x HDMI 1.4		1 x HDMI 2.0		3 x HDMI 1.4
	DisplayPort	1		-		1
I/O Port	USB 3.1 Gen1 (Front)	2 (Include Type C x 1)		-		2
	USB 2.0 (Front)	-		2		-
	USB 3.1 Gen1 (Rear)	-		-		3 (Include Type C x 1)
	USB 2.0 (Rear)	2		1		4
	COM Port	1 x RS232		-		-
	Line in/Line out/Mic in	1		1		1
Network	LAN	1 x Intel® Gigabit LAN		1 x Realtek Gigabit LAN	1 x Realtek Gigabit LAN (Support PoE, 802.3at)	1x Realtek Gigabit LAN
	Wifi	Realtek 802.11 b/g/n		Realtek 802.11 b/g/n Bluetooth 4.0		-
VESA Mount		Bracket included		Bracket included		-
Stand		Optional (PS02)		-		-
Dimension (L/W/H) mm		141 x 141 x 42		141 x 141 x 29		143 x 143 x 87
Weight	NW (kg)	0.4		0.27	0.3	1.45
	GW (kg)	1.2		0.65	0.52	2.55
Certification		CB, CE, BSMI, ETL, FCC, RCM, VCCI, RoHS, R&TTE		CB, CE, BSMI, ETL, FCC, RCM, VCCI, R&TTE		CE, FCC, ETL
Operating Temperature (°C)		0~50		0~40		0~35
Chassis		Plastic		Plastic		Plastic
Power Supply		19V/3.42A 65W external adapter		12V/2A 24W external adapter	Support POE (PD), 802.3at	19.5V/9.23A 180W external adapter
Operating System		Windows 10 64bit, Linux		Android 5.1		Windows 10 64bit

SH370R6/SH310R4

XPC 300-SERIES SPACE-SAVING SCALABLE WORKSTATION

As the leading brand of mini-PC maker, Shuttle has the most complete mini-PC product line, among which the cube-size XPC is the best-known product. The expandable XPC cube series is only 1/3 size of a traditional tower PC, yet boasting features of impressive performance, silent cooling technology, easy-to-assembly and reliability to make it almost limitless range of possible applications.



SH370R6

The SH370R6 is designed with Intel® H370 chipset, supporting the 8th Gen. of Intel Coffee Lake desktop processor family. This model promises more performance and expandability, it is possible to install one PCIe x16 3.0 graphics card and two M.2 expansion slots for SSDs and multi-purpose expansion cards. The SH370R6 boasts a plenty of I/O interfaces, includes four sets of USB 2.0, USB 3.1 Gen 1 and USB 3.1 Gen 2. With CPU integrated UHD graphics engine, the SH370R6 is able to run three 4K monitors simultaneously via HDMI and DisplayPort.

FEATURES

- Supports Intel® Coffee Lake desktop processors
- Integrated Cooling Engine 2 (I.C.E.2) Heat pipe technology
- One PCI-E x16 Gen 3.0 and one PCI-E x4 Gen 3.0
- Four USB 3.1 Gen 2 for faster data transmission
- One HDMI and two DisplayPort for three 4K display
- Strong expansion capacity by M.2 Type M and M.2 Type E
- 300W 80 plus Bronze Power Supply

SH310R4

The SH310R4 is a more affordable mini-PC for 8th Gen of Intel Coffee Lake desktop processor platform. With the CPU integrated Intel® UHD graphics engine, the SH310R4 supports 4K content playback. This model is equipped with two PCI-E express, two M.2 expansion slots, a plenty of USB ports and diversified signal selections of DisplayPort, HDMI and VGA ports for dual-screen display. For a personal look and feel, the front panel can be customized by adding individual design to it.

FEATURES

- The affordable model for Intel® Coffee Lake processor family
- Integrated Cooling Engine 2 (I.C.E.2) Heat pipe technology
- One PCI-E x16 Gen 3.0 and one PCI-E x1 Gen 2.0
- Multiple USB 2.0 and USB 3.1 Gen1 ports
- Built-in a DisplayPort, HDMI and a VGA output
- Strong expansion capacity by M.2 Type M and M.2 Type E
- 300W 80 plus Bronze Power Supply



Model		SH370R6	SH310R4	SZ270R9	SZ270R8	SH110R4
CPU		Intel® CoffeeLake LGA1151v2 socket Core i3/i5/i7, Pentium, Celeron 95W processor	Intel® CoffeeLake LGA1151v2 socket Core i3/i5/i7, Pentium, Celeron 95W processor	Intel® KabyLake/Skylake LGA1151 socket Core i3/i5/i7, Pentium, Celeron 95W processor	Intel® KabyLake/Skylake LGA1151 socket Core i3/i5/i7, Pentium, Celeron 95W processor	Intel® KabyLake/Skylake LGA1151 socket Core i3/i5/i7, Pentium, Celeron 95W processor
Chipset		Intel® H370	Intel® H310	Intel® Z270	Intel® Z270	Intel® H110
Video Engine Processor		Intel® UHD Graphics series	Intel® UHD Graphics series	Intel® HD Graphic series	Intel® HD Graphic series	Intel® HD Graphic series
Max Resolution		HDMI 4096x2160@60Hz DisplayPort 4096x2160@60Hz	HDMI 4096x2160@60Hz DisplayPort 4096x2160@60Hz VGA 1920x1080@60Hz	HDMI 3840x2160@30Hz DisplayPort 4096x2160@60Hz	HDMI 3840x2160@30Hz DisplayPort 4096x2160@60Hz	HDMI 3840x2160@30Hz DisplayPort 4096x2160@60Hz VGA 1920x1080@60Hz"
Memory		4 x DDR4 2400/2666 MHz, Max. 64GB	2 x DDR4 2400/2666 MHz, Max. 32GB	4 x DDR4 2133/2400 MHz, Max. 64GB	4 x DDR4 2133/2400 MHz, Max. 64GB	2 x DDR4 2133 MHz, Max. 32GB
Storage		2 x 3.5" HDD 1 x 5.25" ODD Bay	2 x 3.5" HDD 1 x 5.25" ODD Bay	4 x 3.5" HDD	4 x 3.5" HDD	2 x 3.5" HDD 1 x 5.25" ODD Bay
Expansion Slot	PCI Express Slots	1 x PCI-e x16 Gen. 3.0 1 x PCI-e x4 Gen. 3.0	1 x PCI-e x16 Gen. 3.0 1 x PCI-e x1 Gen. 2.0	1 x PCI-e x16 1 x PCI-e x4	1 x PCI-e x16 1 x PCI-e x4	1 x PCI-e x16 1 x PCI-e x1
	M.2	1 x M.2 2280, M Key 1 x M.2 2230, E Key	1 x M.2 2280, M Key 1 x M.2 2230, E Key	2 x M.2 2280, M Key 1 x M.2 2230, E Key	2 x M.2 2280, M Key 1 x M.2 2230, E Key	1 x M.2 2280, M Key 1 x M.2 2230, E Key
Audio		HD 5.1 channel	HD 5.1 channel	HD 5.1 channel	HD 5.1 channel	HD 5.1 channel
Video Output	HDMI Port	1 x HDMI 2.0	1 x HDMI 2.0	1 x HDMI 1.4	1 x HDMI 1.4	1 x HDMI 1.4
	DisplayPort	2	1	2	2	1
	VGA Port	-	1	-	-	1
I/O Port	USB 3.1 Gen1(Front)	2	2	2	2	2
	USB 2.0 (Front)	2	-	-	-	-
	USB 3.1 Gen1/Gen2 (Rear)	2/4	2/-	4/-	4/-	2/-
	USB 2.0 (Rear)	2	4	4	4	4
	PS/2 Port	-	-	-	-	1
	Line in/Line out/Mic in	1/2/2	1/2/2	1/2/2	1/2/2	1/2/2
	Network	LAN	1 x Intel® Gigabit LAN	1 x Intel® Gigabit LAN	2 x Intel® Gigabit LAN	2 x Intel® Gigabit LAN
	Wifi	Optional (WLN-M)	Optional (WLN-M)	Optional (WLN-M)	Optional (WLN-M)	Optional (WLN-M)
Dimension (L/W/H) mm		332 x 216 x 198	332 x 216 x 198	332 x 216 x 198	332 x 216 x 198	325 x 215 x 198
Weight	NW (kg)	3.5	TBC	3.5	3.5	3.5
	GW (kg)	4.5	TBC	5	5	5
Certification		CB, CE, BSMI, ETL, FCC, RCM, RoHS, VCCI	CB, CE, BSMI, ETL, FCC, RCM, RoHS, VCCI	CB, CE, BSMI, ETL, FCC, RCM, RoHS, VCCI	CB, CE, BSMI, ETL, FCC, RCM, RoHS, VCCI	CB, CE, BSMI, ETL, FCC, RCM, RoHS
Operating Temperature (°C)		0~40	0~40	0~40	0~40	0~40
Chassis		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Power Supply		300W 80 Plus Bronze	300W 80 Plus Bronze	500W 80 Plus Silver	500W 80 Plus Silver	300W 80 Plus Bronze
Operating System		Windows 10 64bit, Linux	Windows 10 64bit, Linux	Windows 10 64bit / 7 64bit (Skylake), Linux	Windows 10 64bit / 7 64bit (Skylake), Linux	Windows 10 64bit / 7 64bit (Skylake), Linux
Optional Accessories		WLN-M, PHD3, J-RS232	WLN-M, PHD3, J-RS232	WLN-M, PHD3	WLN-M, PHD3	WLN-M, PHD3, J-RS232



X50V6

FANLESS 15.6" ALL-IN-ONE PC FOR POS, POI, KIOSK APPLICATIONS

Shuttie X50V6 is an All-in-One PC boasting a 15.6-inch 16:9 touch screen and equipped with Intel® Celeron® 3865U dual-core processor. Thanks to the completely passive cooling, the machine is virtually silent, maintenance-free and suitable for continuous 24/7 operation. The model provides a HDMI and a VGA interface which can be used to drive two more displays for basic digital signage applications. With an optional accessory PCL71 accessory or a POS01 accessory, users can easily upgrade the device with additional COM, LPT, and DIO ports. In addition to support standard 19V, the machine also supports 12V voltage input designed for easily connected to automotive and industrial applications.



FEATURES

- IP54 compliant front panel
- Supports triple display via HDMI and VGA
- Two dual channel DDR4-2133 memory slots
- Fanless cooling design
- Two expansion options: RS232 and Parallel expansion card
- 24/7 certified in 0-40°C environments

ACCESSORY

PCL71

COM/LPT DAUGHTER BOARD FOR X50 SERIES

The PCL71 is compatible with Shuttie X50 series. It provides one RS232, one RS232/RS422/RS485 ports (both support 0V/5V/12V) and one parallel (LPT) port to the back panel.



POS01

COM/LPT/RJ11 DAUGHTER BOARD FOR X50 SERIES

The POS01 is compatible with Shuttie X50 series, to provide an additional RJ11 type DIO Port (12V/24V) and four COM Ports: (1) RS232, (1) RS232/422/485, (1) RJ45 type RS232, (1) RJ45 type RS232/422/485. *All COM ports are 0/5/12V compatible.



P20U

FANLESS 11.6" ALL-IN-ONE POS TERMINAL PC

The P20U is the new member in Shuttle XPC AIO family. It is an 11.6-inch 16:9 All-in-One touchscreen PC, powered by Intel® Celeron® 3865 dual-core processor and support triple display via built-in HDMI and D-Sub ports. With the IP54 compliant front panel and completely fan-less, the P20U is a very silent and stable machine for long-term operation, making it ideal for applications in any retail, self-service or hospitality environment that requires a small footprint AIO terminals or KIOSK. There are multiple expansion accessories available for option, allowing users to expand COM, RJ11, NFC or 4G/LTE function based on actual needs.



FANLESS



NONSTOP



IP54



FEATURES

- 11.6" capacitive screen with 10-point multi touch
- IP54 compliant front panel
- Supports triple display via HDMI and VGA
- Fanless cooling design
- Multiple expansion options: COM, RJ11, NFC, 4G and Magstripe Card Reader
- Support 12V DC/voltage input
- 24/7 certified in 0-40°C environments

ACCESSORY

POS02

COM/RJ11 EXPANSION BOARD FOR P20U

The POS02 is compatible with the Shuttle P20U. It provides three RS232, one RS232/RS422/RS485 with 0V/5V/12V support and two USB ports for MSR and 4G dongle module.



WWN02

4G/LTE EXTENSION KIT FOR P20U

The 4G extension kit ensures superior connectivity and network quality in outdoor environment.



PMSR01

MAGNETIC STRIPE READER

The PMSR01 is compatible with Shuttle P20U and can be installed and powered through USB port.



PMSR02

MAGNETIC STRIPE READER

The PMSR02 is a magnetic stripe reader supporting transaction function. It's fully compatible with Shuttle P20U and can be installed and powered through USB port.



PNFC01

NFC EXPANSION MODULE

A NFC expansion module that is compatible with P20U without transaction function.





ACCESSORY LIST

Model		X50V6	P20U
Color		Black / White	Black
Screen		15.6" LCD (16:9, 1366x768) Single touch	11.6" LCD (16:9, 1366x768) Multi touch
CPU		Intel® Celeron 3865U	Intel® Celeron 3865U
Video Engine Processor		Intel® HD Graphics 610	Intel® HD Graphics 610
Max Resolution		HDMI 3840x2160@30Hz VGA 1920x1080@60Hz	HDMI 3840x2160@30Hz VGA 1920x1080@60Hz
Memory		2 x DDR4 2133 MHz, Max. 32GB	2 x DDR4 2133 MHz, Max. 32GB
Storage		1 x 2.5" HDD/SSD (max. 9.5 mm) 1 x SD card	1 x 2.5" HDD/SSD (max. 9.5 mm) 1 x SD card
Expansion Slot		1 x M.2 2280, M Key 1 x M.2 2230, E Key	1 x M.2 2280, M Key 1 x M.2 2230, E Key
Video Output	HDMI Port	1 x HDMI 1.4	1 x HDMI 1.4
	VGA Port	1	1
I/O Port	USB 3.1 Gen1 (Bottom)	2	2
	USB 2.0 (Bottom)	2	2
	USB 2.0 (Side)	2	2
	COM Port	Optional (PCL71 / POS01)	2 x RS232 (Max. 4)
	Line out/Mic in	1/1	1/1
Network	LAN	1 x Intel® Gigabit LAN	1 x Intel® Gigabit LAN
	Wifi	Realtek 802.11 b/g/n	Realtek 802.11 b/g/n Bluetooth 4.1
Communication	Webcam	720P HD / 2M FHD	720P HD
	Microphone	Capacitor	Capacitor
	Speaker	2 x 2W	1 x 2W
VESA Mount		Support 100 x 100 mm	Support 100 x 100 mm
Dimension (L/W/H) mm		391.3 x 327 x 42	299 x 203 x 50
Weight	NW (kg)	2.92	2.47
	GW (kg)	4.2	3.39
Certification		CB, CE, BSMI, R&TTE, ETL, FCC, RCM, RoHS, VCCI	CB, CE, ETL, FCC, VCCI, RCM, BSMI, EAC
Operating Temperature (°C)		0~40	0~40
Power Supply		19V/3.42A 65W external adapter	19V/3.42A 65W external adapter
Operating System		Windows 10 64bit, Linux	Windows 10 64bit, Linux
Optional Accessories		PCL71, POS01	POS02, WWN02, PMSR01, PMSR02, PNFC01

Item	Description	Compatible with
J-RS232	1x COM expansion	SH110R4, SZ170R8, SZ170R8V2, XH110, XH110V, SH370R6, SH310R4
PC61J	300 W power supply 80+	SH110R4, SH170R6
PC63J	500 W power supply 80+	SH110R4, SH170R6, SZ170R8, SZ170R8V2
PCL71	2x COM, 1x LPT expansion	X50V5, X50V6
PHD3	2.5" HDD/SSD expansion frame	SH110R4, XH170R6, SZ170R8, SZ170R8V2, SZ270R8, SZ270R9, SH370R6, SH310R4
PHD4	3.5" HDD expansion frame	XH110, XH110V, XH170V, XH270, XH310, XH310V
PHD5	2.5" HDD/SSD expansion frame	NS02A, NS02E
PMSR01	Magnetic Stripe Swipe Reader without transaction function	P20U
PMSR02	Magnetic Stripe Swipe Reader with transaction function	P20U
PNFC01	NFC module	P20U
POS01	4x COM, 1x LPT, 1x DIO expansion	X50V5, X50V6
POS02	2x USB2.0, 1x RJ11, 4x COM (COM3 support RS232/422/485 0V,5V,12V) expansion	P20U
PS01	Vertical stand	XC60J, XH110, XH110G, XH110V, XH170V, XH270, XH310, XH310V
PS02	Vertical stand	DH110, DH110SE, DH170, DH270, DQ170, DX30, NC03U-Series, DH02U-series, DH310, DL10J, DH370
PV02	VESA kit	XC60J, XH110, XH110V, XH110G, XH170V, XH270, XH310, XH310V
PV05	VESA kit	NS02A, NS02E
PVG01	VGA adapter	DH110, DH170, DH270, DQ170, DX30, XH110, XH110V, DH310, DH370
WLN-M	Wi-Fi expansion	DH110, DH110SE, DH270, SH110R4, SZ170R8, SZ170R8V2, SZ270R8, SZ270R9, DX30, NC02U-Series, NC03U-Series, XC60J, XH110G, XH110, XH110V, XH170V, XH270, DH02U-series, SH370R6, SH310R4, XH310, XH310V, DH310, DH370
WLN-P	Wi-Fi expansion	DH170, DQ170, SH170R6, SH170R8, XH170V
WWN01	4G / LTE connection module	DL10J
WWN02	4G / LTE antenna set	P20U