

Shuttle[®]

PRODUCT GUIDE

Superb for Home, Work, Business and Industrial applications

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Shuttle[®]

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.

XH510G2

5-LITER SPACE-SAVING VOLUME

BUILD ON A SOLID FOUNDATION WITH PCI-EX16 SLOT

Equips with Intel® H510 chipset, Shuttle XPC slim XH510G2 supports Intel® 11th Gen LGA1200 65W Core™ CPU delivering high-performance computing for applications that demand high-speed processing. Despite its 5-liter compact chassis, XH510G2 provides a PCI-Ex16 slot to install an extra graphics card, capture card, or more to meet diverse application requirements. Furthermore, it offers multiple interfaces to connect peripherals, including 4x USB 3.2 Gen1, 4x USB 2.0, an HDMI 2.0, a DisplayPort 1.4, SATA connectors, M.2 slots, and Intel® Gigabit LAN. These scalabilities provide all the fundamentals to boost daily productivity. It is perfect for the video wall, POS server, surveillance, professional creators, and Kiosk applications.

FEATURES

- Supports 10th/11th Gen Intel® Core™ i3/i5/i7, Pentium®, Celeron® LGA1200 processor
- Integrated Dual PCI-E Slots for various card installation : one PCI-E x 16 and one PCI-E x 1
- Dual display productivity via one HDMI 2.0 and one DisplayPort 1.4
- Rich connectivity : 4 x USB 3.2 Gen 1, 4 x USB 2.0, SATA gen 3.0, Intel® Gigabit LAN
- Three M.2 slots for M.2 SSD, Bluetooth module, or Wi-Fi module
- 24/7 Certified, operable in 0-50°C



Model	XH510G2	
Cooling system	Smart fan	
CPU	Intel® 11 th /10 th Gen LGA1200 socket Core i3/i5/i7/i9, Pentium, Celeron 65W processor	
Chipset	Intel® H510	
Video Engine Processor	Intel® UHD Graphics series	
Max Resolution	HDMI 4096 x 2160@60Hz DisplayPort 4096 x 2160@60Hz	
Memory	2 x DDR4 3200 /2933 /2666 MHz, Max. 64GB	
Storage	1 x 2.5" HDD/SSD (max. 12.5 mm)	
Expansion Slot	2 x M.2 2280, M Key , 1 x M.2 2230, E Key 1 x PCIe x16 , 1 x PCIe x1 (PCIe card length Max 208mm)	
Video Output	HDMI Port	1
	DisplayPort	1
	VGA Port	Optional
I/O Port	USB 3.2 Gen1/Gen2 (Front)	2/-
	USB 2.0 (Front)	2
	USB 3.2 Gen1/Gen2 (Rear)	2/-
	USB 2.0 (Rear)	2
	COM Port	RS232 x 1 (Optional)
Network	Line in/ Line out/ Mic in	-/ 1/ 1
	LAN	1 x Intel® 1G LAN
	Wifi	Optional
VESA	Bracket included	
Dimension (L/W/H) mm	250 x 200 x 95	
Weight	NW (kg)	2.98
	GW (kg)	3.49
Certification	CB, CE,BSMI,cTUVus,FCC, RCM, VCCI, RoHS	
Operating Temperature (°C)	0~50	
Chassis	Metal	
Power Supply	19.5V/9.23A 180W external adapter	
Operating System	Windows 10/11 64bit, Linux	
Optional Accessories	WLN-M, WWN03	

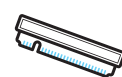


XH410G

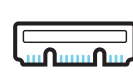
BIG POWER IN VERSATILE COMPACT PACKAGE

BUILT-IN PCIE X16 SLOT FOR VARIOUS CARD

The XH410G is powered by Intel® H410 chipset and supported 10th Gen LGA1200 Comet Lake 65W CPU, delivering reliability and high performance on complex tasks processing and 4K resolution content. Equipped one HDMI 2.0 and VGA, the XH410G supports dual independent displays, providing high productivity and dynamic visualization for digital signage and surveillance monitoring. With one PCI-E x16 expansion slot, it's able to install an extra graphics card, capture card, or more to meet the diverse application requirements. The XH410G also provides multiple I/O ports to connect peripherals, including 4 x USB 2.0, 4 x USB 3.2 Gen1, SATA 6Gbps, 2 x M.2, and Intel® Gigabit LAN. It's suitable for the workstation, surveillance, and video wall applications.



PCI-E x 16



M.2



4K UHD



NONSTOP

FEATURES

- Supports Intel® 10th Gen Core™ i3/i5/i7, Pentium®, Celeron® LGA1200 processor
- Single PCI-E x16 slot for various card installation (maximum size 208.5 x 120 x 30mm)
- Two M.2 slots for M.2 SSD, Bluetooth module, or Wi-Fi module
- Dual display productivity via one HDMI 2.0 and VGA
- VESA mount-ready
- 24/7 Certified, operable in 0-50°C (*With use of SSD and Wide Range Temp. SO-DIMM)

Model	XH410G	
Cooling system	Smart fan	
CPU	Intel® 10 th Gen LGA1200 socket Core i3/i5/i7/i9, Pentium, Celeron 65W processor	
Chipset	Intel® H410	
Video Engine Processor	Intel® UHD Graphics series	
Max Resolution	HDMI 4096 x 2160@60Hz VGA 1920 x 1080@60Hz	
Memory	2 x DDR4 2933 / 2666 MHz, Max. 64GB	
Storage	1 x 2.5" HDD/SSD (max. 12.5 mm)	
Expansion Slot	1 x M.2 2280, M Key , 1 x M.2 2230, E Key 1 x PCIe x16 (PCIe card length Max 208mm)	
Video Output	HDMI Port	1
	DisplayPort	-
	VGA Port	1
I/O Port	USB 3.2 Gen1/Gen2 (Front)	2/-
	USB 2.0 (Front)	2
	USB 3.2 Gen1/Gen2 (Rear)	2/-
	USB 2.0 (Rear)	2
	COM Port	RS232 x 1 (Optional)
	Line in/Line out/Mic in	- / 1 / 1
Network	LAN	1 x Intel® 1G LAN
	Wifi	Optional
VESA	Bracket included	
Dimension (L/W/H) mm	250 x 200 x 78.5	
Weight	NW (kg)	1.9
	GW (kg)	3.2
Certification	CB, CE,BSMI,cTUVus,FCC, RCM, VCCI, RoHS	
Operating Temperature (°C)	0~50	
Chassis	Metal	
Power Supply	19.5V/9.23A 180W external adapter	
Operating System	Windows 10/11 64bit, Linux	
Optional Accessories	WLN-M,PS01	

DH470

ROBUST MULTITASKING 1 LITER PC FOR TRIPLE DISPLAYS

Based on the latest 10th Gen Intel LGA1200 Processors and support for high-speed up to 2933 MHz DDR4 memory, the DH470 is ready to take care of multitasking workloads and deliver powerful performance for a wide variety of businesses and vertical applications. Thanks to the integrated Intel® UHD graphics, the DH470 supports stunning 4K UHD resolution in multimedia content playback. It also supports triple displays, providing productivity benefits and dynamic visualization for digital signage applications. With only 43mm thickness, the DH470 still has room for two M.2 interfaces, eight USB ports, two RS232 ports and dual Gigabit LAN for expandability and connectivity.

FEATURES

- Supports 10th/11th Intel® Gen Core™ i3/i5/i7/i9, Pentium®, Celeron® LGA1200 processor
- Supports three independent displays
- 4 x USB 3.2 Gen 2, 4 x USB 3.2 Gen 1, 2 x RS232, 1 x SD card reader
- Two M.2 slots for strong expansion capacity
- Dual Intel® Gigabit LAN interfaces
- 24/7 operations in 0-50°C environments



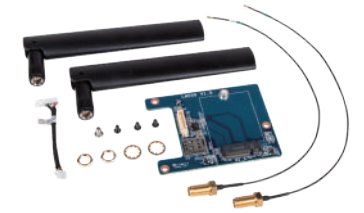
ACCESSORIES

WWN03

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



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

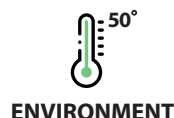
Compatible with Shuttle XPC slim PCs, the VGA output replaces one COM port, meaning only one COM port can be used while PVG01 is in use.



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.



DUAL DISPLAY

M.2

ENVIRONMENT

DH410

EXPERIENCE THE 10TH GEN POWER

FULL-SIZED PC PERFORMANCE
IN A TINY FOOTPRINT

DH410 supports 10th generation Intel Comet Lake LGA1200 CPU, providing up to 10 cores for effortless multitasking and smooth video playback. With built-in HDMI 2.0a and DisplayPort ports, users can configure two 4K displays easily. This compact model also includes eight USB ports, two serial ports, dual M.2 slots, and DDR4 memory up to 64GB. The DH410 is the perfect choice as a solid PC for digital signage, POS, kiosk, and many more.

FEATURES

- Supports Intel® 10th Gen Core™ i3/i5/i7/i9, Pentium®, Celeron® LGA1200 processor
- Supports dual 4K displays via HDMI2.0a and DisplayPort
- Excellent Connectivity : 4 x USB 3.2 Gen 1, 4 x USB 2.0, 2 x RS232, 1 x SD card reader
- Two M.2 slots for strong expansion capacity
- Dual Intel® Gigabit LAN interfaces
- 24/7 operations in 0-50°C environments

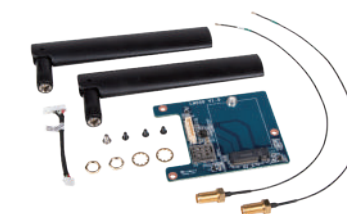
ACCESSORIES

WWN03

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



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

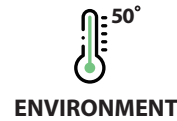
Compatible with Shuttle XPC slim PCs, the VGA output replaces one COM port, meaning only one COM port can be used while PVG01 is in use.



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.



DH32U series

POWERFUL 4K WITH QUAD DISPLAY SUPPORT

Shuttle latest XPC Slim DH32U integrated with the Intel® 11th high-performance Tiger Lake-U-based processor provides greater system performance over previous generations with advanced technologies driving faster speeds. The built-in Intel® Iris® Xe graphics and high-speed 3200MHz DDR4 memory allow DH32U to perform a fast transmission bandwidth and enhance graphics performance to accelerate AI processing and the encoding workloads of content-creation tasks. In addition, this model supports up to 4 independent displays via its four native HDMI output, with 4K resolution at 60Hz refresh rate. These features combine to make it ideal for deployment on presenting high-quality contents on a video wall, central control room, video conferencing, and multi-display applications.

FEATURES

- CPU options of Intel® 11th generation Core™ i3-115G4/i5-1135G7/i71165G7、Pentium®7505
- Built-in Intel® Iris® Xe graphics
- Four Native HDMI 2.0b for Quad displays
- Dual DDR4-3200 memory slot, with up to 64GB
- 1 x M.2 2280 M key (PCIe Gen 4 x 4/SATA mode) for SSD, 1 x M.2 2230 E key for WIFI
- Rich IO ports : 4 x USB 3.2Gen2, 4 x USB 3.2Gen1, 2 x RS232



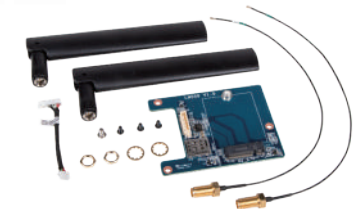
ACCESSORIES

WWN03

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



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.





Model		DH470	DH410	DH410S	DH370
Cooling system		Smart fan	Smart fan	Smart fan	Smart fan
CPU		Intel® Cometlake-s LGA1200 socket Core i3/i5/i7/i9, Pentium, Celeron 65W processor	Intel® Cometlake-s LGA1200 socket Core i3/i5/i7/i9, Pentium, Celeron 65W processor	Intel® Cometlake-s LGA1200 socket Core i3/i5/i7/i9, Pentium, Celeron 65W processor	Intel® CoffeeLake LGA1151v2 socket Core i3/i5/i7/i9, Pentium, Celeron 65W processor
Chipset		Intel® H470	Intel® H410	Intel® H410	Intel® H370
Video Engine Processor		Intel® UHD Graphics series	Intel® UHD Graphics series	Intel® UHD Graphics series	Intel® UHD Graphics series
Max Resolution		HDMI 4096 x 2160@60Hz DisplayPort 4096 x 2160@60Hz	HDMI 4096 x 2160@60Hz DisplayPort 4096 x 2160@60Hz	HDMI 3840 x 2160@30Hz DisplayPort 4096 x 2160@60Hz	HDMI 4096 x 2160@60Hz DisplayPort 4096x2160@60Hz
Memory		2 x DDR4 2933/2666 MHz, Max. 64GB	2 x DDR4 2933/2666 MHz, Max. 64GB	2 x DDR4 2933/2666 MHz, Max. 64GB	2 x DDR4 2666/2400 MHz, Max. 64GB
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
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
Video Output	HDMI Port	1 x HDMI 2.0	1 x HDMI 2.0	1 x HDMI 1.4	1 x HDMI 2.0
	DisplayPort	2	1	1	2
	VGA Port	Optional (PVG01)	Optional (PVG01)	Optional (PVG01)	Optional (PVG01)
I/O Port	USB 3.2 Gen1/Gen2 (Front)	2(Include Type C x 1)/2	2/-	2(Include type C x1)/-	2/2
	USB 2.0 (Front)	-	2	2	-
	USB 3.2 Gen1/Gen2 (Rear)	2/2	2/-	2/-	2/2
	USB 2.0 (Rear)	-	2	2	-
	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
Line out/Mic in		1/1	1/1	1/1	1/1
Network	LAN	2 x Intel® Gigabit LAN	2 x Intel® Gigabit LAN	1 x Realtek Gigabit LAN	2 x Intel® Gigabit LAN
	Wifi	Optional (WLN-M)	Optional (WLN-M)	Optional (WLN-M)	Optional (WLN-M)
VESA		Bracket included	Bracket included	Optional (PV04)	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
Weight	NW (kg)	1.3	1.2	1.3	1.3
	GW (kg)	2.05	2	2.05	2.05
Certification		CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI	CB, CE, cTUVus, BSMI, FCC, RCM, RoHS, VCCI
Operating Temperature (°C)		0~50	0~50	0~50	0~50
Chassis		Metal	Metal	Metal	Metal
Power Supply		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 10/11 64bit, Linux	Windows 10/11 64bit, Linux	Windows 10/11 64bit, Linux	Windows 10 64bit, Linux
Optional Accessories		WLN-M, PVG01, PS02, WWN03	WLN-M, PVG01, PS02, WWN03	WLN-M, PVG01, PS02, WWN03	WLN-M, PVG01, PS02



Model		DH310V2	DH310S	DH32U series	DH02U series	DA320
Cooling system		Smart fan	Smart fan	Smart fan	Smart fan	Smart fan
CPU		Intel® CoffeeLake LGA1151v2 socket Core i3/i5/i7/i9, Pentium, Celeron 65W processor	Intel® CoffeeLake LGA1151v2 socket Core i3/i5/i7/i9, Pentium, Celeron 65W processor	Intel® Pentium® 7505 or Intel® i3-1115G4/i5-1135G7/i7-1165G7	Intel® Celeron 3865U or Intel® i3-7100U/i5-7200U/i7-7500U	AMD 3000 series / 2000 series Ryzen R5 / Ryzen R3 / Athlon APU 65W processor
Chipset		Intel® H310	Intel® H310	Integrated in CPU	Integrated in CPU	AMD® A320
Video Engine Processor		Intel® UHD Graphics series	Intel® UHD Graphics series	Intel® DG1 Graphics	NVIDIA GeForce GTX 1050 GPU 4GB	Radeon® Vega series
Max Resolution		HDMI 4096 x 2160@60Hz DisplayPort 4096 x 2160@60Hz	HDMI 3840 x 2160@30Hz DisplayPort 4096 x 2160@60Hz	HDMI 4096 x 2160@60Hz	HDMI 4096 x 2160@60Hz 8192 x 4320@60Hz in Surround Mode	HDMI 4096 x 2160@60Hz DisplayPort 4096 x 2160@60Hz
Memory		2 x DDR4 2666/2400 MHz, Max. 64GB	2 x DDR4 2666/2400 MHz, Max. 64GB	2 x DDR4 3200MHz, Max.64GB	2 x DDR4 2133 MHz, Max. 32GB	2 x DDR4 2933/2667 Mhz , Max 32GB
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 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 (PCIe Gen 4x4) 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 2.0	1 x HDMI 1.4	4 x HDMI 2.0b	4 x HDMI 2.0	1 x HDMI 2.0
	DisplayPort	1	1	-	-	2
	VGA Port	Optional (PVG01)	Optional (PVG01)	Optional (PVG01)	-	Optional (PVG01)
I/O Port	USB 3.2 Gen1/Gen2 (Front)	2/-	2(Include Type C x 1)/-	4	2/-	4/-
	USB 2.0 (Front)	2	2	-	2	-
	USB 3.2 Gen1/Gen2 (Rear)	2/-	2/-	4	2/-	2/-
	USB 2.0 (Rear)	2	2	-	-	2
	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	2 x RS232
Line out/Mic in		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	1 x Intel® Gigabit LAN	2 x RTL8111H
	Wifi	Optional (WLN-M)	Optional (WLN-M)	Optional (WLN-M)	Optional (WLN-M)	Optional (WLN-M)
VESA		Bracket included	Optional (PV04)	Bracket included	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
Weight	NW (kg)	1.3	1.3	1.03	1.03	1.3
	GW (kg)	2.05	2.05	2.2	2.2	2.05
Certification		CB, CE, cTUVus, BSMI, FCC, RCM, RoHS, VCCI	CB, CE, cTUVus, BSMI, FCC, RCM, RoHS, VCCI	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI	CB, CE, BSMI, ETL, FCC, RCM, RoHS, VCCI	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI
Operating Temperature (°C)		0~50	0~50	0~50	0~50	0~50
Chassis		Metal	Metal	Metal	Metal	Metal
Power Supply		19V/4.74A 90W external adapter	19V/4.74A 90W external adapter	19V/4.74A 90W external adapter	19V/6.32A 120W external adapter	19V/6.32A 120W external adapter
Operating System		Windows 10 64bit, Linux	Windows 10 64bit, Linux	Windows 10 64bit, Linux	Windows 10 64bit, Linux	Windows 10 64bit, Linux
Optional Accessories		WLN-M, PVG01, PS02	WLN-M, PVG01, PS02	WLN-M, PVG01, PS02, WWN03	WLN-M, PS02	WLN-M, PVG01, PS02, WWN03

DS20U series

FANLESS, ENERGY-EFFICIENT 1-LITER PC WITH COMET LAKE-U PROCESSOR

The DS20U series is a fanless, ultra-compact PC powered by the 10th gen Intel® Comet Lake-U processor. With its rugged yet slim design, the DS20U provide exceptional levels of connectivity even in the limited space. It includes HDMI 2.0a, DisplayPort, USB 3.2, serial ports, Dual LAN and optional VGA. Thanks to its passive cooling architecture, the system is virtually maintenance-free and is approved for 24/7 nonstop operation. Designed to support both 12V and 19V inputs, the DS20U is a perfect fit for commercial and industrial applications, including Digital Signage, POS, Kiosk, Thin Client, Office PC, and more.



TRIPLE DISPLAY



DUAL LAN



VESA MOUNT



NONSTOP

ACCESSORIES

WWN03

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



FEATURES

- Supports 10th Gen Intel® Comet Lake-U processors
- Dual 4K display support via HDMI and DisplayPort
- Dual Intel Gigabit Ethernet built in
- Fanless cooling design
- 24/7 operations in 0-40°C environments

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.



DL20N series

BEST BUDGET FANLESS BUSINESS PC WITH COMET LAKE-U PROCESSOR

Shuttle XPC fanless DL20N is a low-power consumption PC, powering by Intel® Jasper Lake Pentium® Silver and Celeron® processors. With Intel® UHD Graphics and the support of high-speed 2933 MHz DDR4 memory, this model can promise reliable performance for multitasking and 4K/UHD resolution. Rich I/O interfaces such as USB3.2 Gen2, USB 2.0, and COM ports are equipped in the model. Since the Internet is essential for the construction of IoT applications, the DL20N supports one Gigabit LAN, includes an M.2 module for IEEE 802.11ac WiFi expansion, and provides 4G/LTE expansion kit options. It is suitable to apply in school, office, thin-client, IoT edge computing, digital signage, and more.

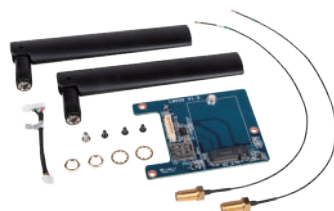
ACCESSORIES

WWN03

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



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.



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.

FEATURES

- 3 processor SKU for option- Intel® Celeron N4505 / Celeron N5105 / Pentium N6005
- Triple-display productivity (HDMI, DisplayPort, and VGA)
- Hi-speed 1 x Intel® 1G LAN (V1) ,1 x Intel® 2.5G LAN (V2) and Wireless Options
- Rich I/O for Multi-Application Possibility (Two USB 3.2 Gen2 ports, two USB 3.2 Gen1 ports, two USB2.0 ports, and two COM ports)



TRIPLE DISPLAY



ENVIRONMENT

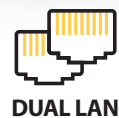
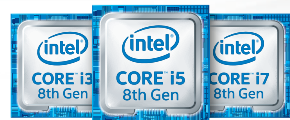


NONSTOP





Model		DS20U series	DS10U series	DL20N series
Cooling system		Fanless	Fanless	Fanless
CPU		Intel® Celeron 5205U or Intel® i3-10110U/i5-10210U/i7-10510U	Intel® Celeron 4205U or Intel® i3-8145U/i5-8265U/i7-8565U	Intel® Celeron N4505 or Intel® Celeron N5105/Pentium N6005
Chipset		Integrated in CPU	Integrated in CPU	Integrated in CPU
Video Engine Processor		Intel® UHD Graphics	Intel® UHD Graphics	Intel® UHD Graphics
Max Resolution		HDMI 4096 x 2160@60Hz DisplayPort 4096 x 2160@60Hz	HDMI 4096 x 2160@60Hz DisplayPort 4096 x 2160@60Hz	HDMI 4096 x 2160@60Hz DisplayPort 4096 x 2160@60Hz VGA 1920 x 1080@60Hz
Memory		2 x DDR4 2666/2400 MHz, Max. 64GB	2 x DDR4 2400 MHz, Max. 64GB	2 x DDR4 2933/2666 MHz, Max. 16GB
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
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
Video Output	HDMI Port	1	1	1
	DisplayPort	1	1	1
	VGA Port	1	1	1
I/O Port	USB 3.2 Gen1/Gen2 (Front)	2 (for Celeron) /2 (for Core i series)	2 (for Celeron) /2 (for Core i series)	-/2
	USB 2.0 (Front)	4	4	-
	USB 3.2 Gen1/Gen2 (Rear)	2 (for Celeron) /2 (for Core i series)	2 (for Celeron) /2 (for Core i series)	2/-
	USB 2.0 (Rear)	-	-	2
	COM Port	1 x RS232/422/485, Support 5V/12V	1 x RS232/422/485, Support 5V/12V	1 x RS232 1 x RS232/422/485, Support 5V/12V
	Line out/Mic in	1/1	1/1	1/1
Network	LAN	2 x Intel® 1G LAN (V1) 1 x Intel® 1G LAN + 1 x 2.5G LAN (V2)	2 x Intel® 1G LAN	1 x Intel® 1G LAN (V1) 1 x Intel® 2.5G LAN (V2)
	Wifi	Optional	Optional	Optional
VESA		Bracket included	Bracket included	Bracket included
Dimension (L/W/H) mm		200 x 165 x 39.5	200 x 165 x 39.5	190 x 165 x 43
Weight	NW (kg)	1.4	1.4	1.5
	GW (kg)	2.1	2.1	2.07
Certification		CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI
Operating Temperature (°C)		0~40	0~40	0~40
Chassis		Metal + Plastic	Metal + Plastic	Metal
Power Supply		19V/3.42A 65W external adapter	19V/3.42A 65W external adapter	19V/2.1A 40W external adapter
Operating System		Windows 10/11 64bit, Linux	Windows 10/11 64bit, Linux	Windows 10/11 64bit, Linux
Optional Accessories		WWN03, WLN-M	WWN03, WLN-M	PS02, WWN01, WWN03, WLN-M



DUAL LAN

4K UHD

ENVIRONMENT

NC10U^{series}

A PALM-SIZED VERSATILE 4K PC

The NC10U series is available with four different processors including Intel® Celeron® and Core™ i3/i5/i7. With just 42mm tall, the case of NC10U series can accommodate one 2.5" HDD (up to 15mm) to provide a flexible storage space. The NC10U offers a wealth of connectors and expansion slots with HDMI, DisplayPort, USB3.2 Gen 1, audio and M.2 interfaces included. The NC10U 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

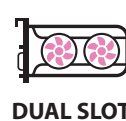
- 4 processor SKUs for option- Intel® Core™ i7-8565U/ i5-8265U/ i3-8145U, Celeron® 4205U
- Supports dual independent displays
- Supports 4K UHD content playback
- Supports up to 15mm 2.5-inch Hard Drive
- VESA mount ready
- 24/7 operations in 0-50°C environments

Model	NC10U	NC10U3/U5/U7
CPU	Intel® Celeron 4205U	Intel® Core™ i3-8145U/i5-8265U/i7-8565U
Video Engine Processor	Intel® UHD Graphics series	
Max Resolution	HDMI 4096 x 2160@60Hz DisplayPort 4096 x 2160@60Hz	
Memory	2 x DDR4 2400 MHz, Max. 64GB	
Storage	1 x 2.5" HDD/SSD (max. 15 mm) 1 x SD card	
Expansion Slot	1 x M.2 2280, M Key 1 x M.2 2230, E Key	
Video Output	HDMI Port	1
	DisplayPort	1
	Type-C	-
I/O Port	USB 3.2 Gen1/Gen2 (Front)	2 (Include Type C x 1) /-
	USB 2.0 (Front)	-
	USB 3.2 Gen1/Gen2 (Rear)	-
	USB 2.0 (Rear)	2
	COM Port	1 x RS232
	Line out/Mic in	1(Combo)
Network	LAN	1 x Intel® 1G LAN
	Wifi	Realtek 802.11 b/g/n
VESA Mount	Bracket included	
Stand	Bracket included	
Dimension (L/W/H) mm	142 x 142 x 42	
Weight	NW (kg)	0.4
	GW (kg)	1.2
Certification	CB, CE, BSMI, cTUVus, FCC, RCM, VCCI, RoHS, RED	
Operating Temperature (°C)	0~50	
Chassis	Plastic	
Power Supply	19V/3.42A 65W external adapter	
Operating System	Windows 10/11 64bit, Linux	

SW580R8/ SH570R6/SH510R4

XPC 500-SERIES SPACE-SAVING SCALABLE WORKSTATION

As the original small form factor PC maker, Shuttle offers a comprehensive line-up of mini PCs. The industry-renowned XPC cube series is only 1/3 size of a traditional tower, yet boasts impressive performance, reliability, and exclusive I.C.E 2 cooling technology, designed for almost limitless applications to meet your needs.



DUAL SLOT



TRIPLE DISPLAY



SW580R8

Shuttle XPC SW580R8 supports Intel® Xeon® W-1000 series processors that deliver outstanding performance, security, and reliability along with up to 128GB of DDR4-3200 ECC memory, which provides stable computing to effectively reduce the numbers of the errors rate. It comes with robust scalability that can accommodate up to 8 x 2.5-inch SSD, PCI-E 4.0 x16 expansion slot, dual 2.5GbE, and dual 1GbE, plus 12 USB interfaces (including 4 x USB 3.2 Gen2 and one Type-C). SW580R8 is designed for a wide range of creative professionals and enterprises to apply it as a high workloads workstation, business server, and more.

FEATURES

- Supports Intel® Xeon® W-1000 series processors and 10th/11th Core™ processors
- Supports DDR4-3200 ECC/Non-ECC memory up to 128GB
- Supports Intel vPro® that helps minimize the risks associated with security threats
- Equipped with one PCIe 4.0 x 16, one PCIe 3.0 x 4, and two M.2 M key 2880
- Built-in 4 x USB 3.2 Gen2, 4 x USB 3.2 Gen1 (includes a Type-C), and 4 x USB 2.0
- Dual 2.5 Gigabit LAN and dual Intel® Gigabit Lan support for Wake on Lan, Teaming Mode

SH570R6

Shuttle XPC cube SH570R6 supports 10th/11th Gen Intel® Core™ processors. With dual-channel DDR-3200MHz high-speed memory (supports up to 128GB) and Intel®Xe graphics that drive triple displays from HDMI and DisplayPort outputs, the SH570R6 allows delivering higher performance for professional tasks. Besides, it supports a dual-slot graphics card, multiple hard drives and M.2 SSD installation, further with up to twelve USB ports (including one with type-C). Network connectivity is extensive, with dual Gigabit LAN and M.2 slot for Wi-Fi module expansion.



FEATURES

- Supports Intel® 10th/11th Generation Processors
- Equipped one PCIe 4.0 x 16, one PCIe 3.0 x 4 and one PCIe 3.0 M.2 Socket
- Provided 4 x USB 3.2 Gen 2, 4 x USB 3.2 Gen 1 (including one with Type-C) and 4 x USB 2.0
- Three 4K displays via one HDMI 2.0b and two DisplayPort
- Dual Intel® Gigabit LAN supports Wake On LAN and Teaming Mode function

SH510R4

The SH510R4 is an entry-level cube PC with support for Intel 10th/11th Gen processors that integrated Intel® Xe engine to output 4K/60 contents via HDMI 2.0b and DisplayPort1.4 simultaneously. To have the maximum storage expansion, the SH510R4 allows users to install two 3.5" HDD, one ODD bay, and a M.2 M key SSD to offer faster storage performance. Despite its seeming small cube, there is enough room to accommodate a whopping 64GB of DDR4, a fast M.2 SSD, a dual-slot graphics card, and even three storage drives. For a personal look and feel, the front panel can be customized by adding individual designs.

FEATURES

- Supports Intel® 10th/11th Generation Processors
- Superb PCI-E 4.0 Scalability Upgraded and with two M.2
- 4K UHD Experience and Dual Display Productivity
- Customizable Front Panel
- Equipped with Shuttle's exclusive I.C.E 2™ cooling engine





Model		SW580R8	SH570R8	SH570R6	SH510R4
CPU		Intel® 11th/10th Gen LGA1200 socket, W series 1000 family 125W processors	Intel® 11 th /10 th Gen LGA1200 socket Core i3/i5/i7/i9, Pentium, Celeron 125W processor	Intel® 11 th /10 th Gen LGA1200 socket Core i3/i5/i7/i9, Pentium, Celeron 125W processor	Intel® 11 th /10 th Gen LGA1200 socket Core i3/i5/i7/i9, Pentium, Celeron 125W processor
Chipset		Intel® W580	Intel® H570	Intel® H570	Intel® H510
Video Engine Processor		Intel® UHD Graphics series	Intel® UHD Graphics series	Intel® UHD Graphics series	Intel® UHD Graphics series
Max Resolution		HDMI 4096 x 2160@60Hz DisplayPort 4096 x 2160@60Hz	HDMI 4096 x 2160@60Hz DisplayPort 4096 x 2160@60Hz	HDMI 4096 x 2160@60Hz DisplayPort 4096 x 2160@60Hz	HDMI 4096 x 2160@60Hz DisplayPort 4096 x 2160@60Hz VGA 1920 x 1080@60Hz
Memory		4 x DDR4 3200/2933/2666, Max. 128GB (ECC DRAM support with Xeon)	4 x DDR4 3200/2933/2666 MHz, Max. 128GB	4 x DDR4 3200/2933/2666 MHz, Max. 128GB	2 x DDR4 3200/2933/2666 MHz, Max. 64GB
Storage		4 x 3.5" HDD	4 x 3.5" HDD	2 x 3.5" HDD 1 x 5.25" ODD Bay	2 x 3.5" HDD 1 x 5.25" ODD Bay
Expansion Slot	PCI Express Slots	1 x PCI-e x16 1 x PCI-e x4	1 x PCI-e x 16 1 x PCI-e x 4	1 x PCI-e x 16 1 x PCI-e x 4	1 x PCI-e x 16 1 x PCI-e x 1
	M.2	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	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
Audio		HD 5.1 channel	HD 5.1 channel	HD 5.1 channel	HD 5.1 channel
Video Output	HDMI Port	1	1	1	1
	DisplayPort	2	2	2	1
	VGA Port	-	-	-	1
I/O Port	USB 3.2 Gen1(Front)	4 (Include Type C x1)	4 (Include Type C x1)	4 (Include Type C x1)	2
	USB 2.0 (Front)	-	-	-	-
	USB 3.2 Gen1/Gen2 (Rear)	-/4	-/4	-/4	2/-
	USB 2.0 (Rear)	4	4	4	4
	Line in/Line out/Mic in	1 / 2 / 2	1 / 2 / 2	1 / 2 / 2	1 / 2 / 2
Network	LAN	2 x Intel® 1G LAN 2 x Realtek 2.5G LAN	2 x Intel® 1G LAN	2 x Intel® 1G LAN	1 x Intel® 1G LAN
	Wifi	Optional	Optional	Optional	Optional
Dimension (L/W/H) mm		332 x 216 x 198	332 x 216 x 198	332 x 215 x 190	329 x 216 x 198
Weight	NW (kg)	3.5	3.5	3.5	3.3
	GW (kg)	5	5	4.5	4.4
Certification		CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI	vCB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI
Operating Temperature (°C)		0~40	0~40	0~40	0~40
Chassis		Aluminum	Aluminum	Aluminum	Aluminum
Power Supply		500W 80 Plus Gold Flex ATX	500W 80 Plus Gold Flex ATX	300W 80 Plus Bronze Flex ATX	300W 80 Plus Bronze Flex ATX
Operating System		Windows 10/11 64bit, Linux	Windows 10/11 64bit, Linux	Windows 10/11 64bit, Linux	Windows 10/11 64bit, Linux
Optional Accessories		WLN-M, PHD3	WLN-M, PHD3	WLN-M, PHD3	WLN-M, PHD3



FEATURES

- 19.5" capacitive screen with 10-point multi touch
- IP54 compliant front panel
- Includes HDMI and VGA outputs for three displays
- Fanless cooling design
- 24/7 certified in 0-40°C environments

ACCESSORIES

PCL71
COM/LPT DAUGHTER BOARD

Compatible with Shuttle X50 series and P9 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

Compatible with Shuttle X50 series and P9 series, it provides 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.



WWN02
4G/LTE ANTENNA EXTENSION KIT

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



PNFC02
NFC EXPANSION MODULE

A NFC expansion module that is compatible with P9 series without transaction function.



P92U series



MULTI-TOUCH



IP54



FANLESS

FANLESS ALL-IN-ONE PC SOLUTION WITH 19.5" MULTI-TOUCH DISPLAY

The P92U is a 19.5" all-in-one PC with 10 point multi-touch functionality of capacitive type. It is equipped with an Intel® Core™ i3/i5/Celeron® processor, fanless cooling system and 16:9 touch screen, making it ideal for digital out-of-home (DOOH) solution. It provides HDMI and VGA interface to connect with additional two displays. Thanks to its IP54-rated front panel, the system achieves high dust and splash proof level. Passive cooling techniques allow the P90U to run 24/7 operation not only quiet but also virtually maintenance free.

P51U series

15.6" MULTI TOUCH ALL-IN-ONE PC FOR POS, POI AND KIOSK

The 15.6" P51U all-in-one PC combines a capacitive touchscreen offering accurate, and precise 10-plus touch response with a high-definition, 16:9 widescreen format LCD, to create a multi-touch display that meets the most demanding interactive applications. It is equipped with Intel® Core™ i3/i5/Celeron® processor and can be integrated with rich peripherals such as POS, NFC and 4G LTE module for easy integration. With the IP54 front panel and passive cooling design, the P51U runs exceptionally quiet, robust, and stable for 24/7 operation.



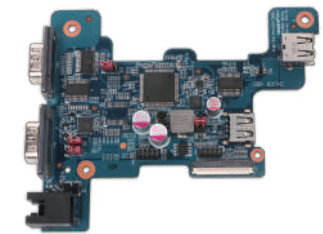
FEATURES

- 10-point multi-touch screen with gloves support
- IP54 compliant front panel
- Supports triple display via HDMI and VGA
- Fanless cooling design
- Flexible expansion options for diverse applications
- 24/7 certified in 0-40°C environments

ACCESSORIES

POS03 COM/RJ11 EXPANSION BOARD

The POS03 is compatible with the Shuttle P5 series. It features three RS232, one RS232/RS422/RS485 with 0V/5V/12V support, and two USB ports for MSR and 4G dongle module.

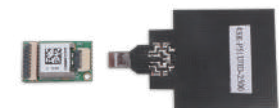


WWN02 4G/LTE ANTENNA EXTENSION KIT

The 4G/ LTE Antenna extension kit ensures superior connectivity and network quality in the outdoor environment.

PNFC03 NFC EXPANSION MODULE

An NFC expansion module that is compatible with the P5 series without transaction function.



P20U

FANLESS 11.6"

ALL-IN-ONE POS TERMINAL PC

The P20U is an 11.6-inch 16:9 All-in-One touchscreen PC, powered by Intel® Celeron® 3865 dual-core processor and supports triple display via built-in HDMI and VGA ports. With the IP54 compliant front panel and completely fanless, 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

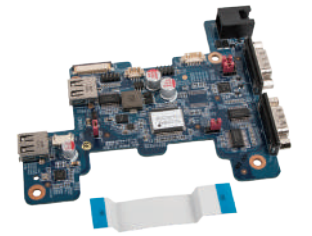
- 11.6" capacitive screen 10-point multi touch
- IP54 compliant front panel
- Supports triple display via HDMI and VGA
- Fanless cooling design
- Multiple accessory options : COM, RJ11, NFC, 4G or Magstripe Card Reader
- Support 12V DC/voltage input
- 24/7 certified in 0-40°C environments

ACCESSORIES

POS02

COM/RJ11 EXPANSION BOARD FOR P20U

The POS02 is compatible with the Shuttle P2 series. 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

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



PMSR01

MAGNETIC STRIPE READER

The PMSR01 is compatible with the Shuttle P2 series and can be installed and powered through the USB port.



PMSR02

MAGNETIC STRIPE READER

The PMSR02 is a magnetic stripe reader supporting the transaction function. It's fully compatible with Shuttle P2 series and can be installed and powered through the USB port.



PNFC01

NFC EXPANSION MODULE

A NFC expansion module that is compatible with the P2 series without transaction function.





FEATURES

- 10th Gen. Intel® Celeron® 5205U processor
- Triple display productivity via HDMI and VGA
- Great Connectivity :
4 x USB 3.2 Gen 1, 2 x USB 2.0, 1 x SD card reader, 1 x FHD webcam, and Intel® Gigabit LAN
- Optional expansion: RS232 and Parallel port expansion cards
- 24/7 certified in 0-40° C environments

ACCESSORIES

PCL71

COM/LPT DAUGHTER BOARD

Compatible with Shuttler X50 series and P9 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

Compatible with Shuttler X50 series and P9 series, it provides 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.



WWN02

4G/LTE ANTENNA EXTENSION KIT

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

X50V8

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



Shuttler X50V8 is an all-in-one PC with a 15.6-inch touch screen featuring a new Intel® Comet Lake-U Celeron® / Core™ i3 processor architecture, which helps enhance computing power and performance scaling. It has built-in Intel® UHD Graphics to play in Ultra HD/4K content and supports up to DDR4-2666 64GB memory to increase productivity. With flexible expansion options, the model is designed to connect diverse peripherals to extend the functionalities by upgrading the device with COM, LPT, and DIO ports. The X50V8 front panel is IP54 certified for dust and splash water resistance. It can be deployed into Kiosk, digital signage, and point-of-sale (POS) solutions in restaurants, retail, hotels, and airports.



Model		P92U	P51U	P20U	X50V8
Color		Black/White	Black/White	Black	Black/White
Screen		19.5" LCD (16:9, 1600 x 900) Multi touch	15.6" LCD (16:9, 1920 x 1080) Multi touch	11.6" LCD (16:9, 1366 x 768) Multi touch	15.6" LCD (16:9, HD 1366 x 768) Single touch
CPU		Intel® Celeron 5205U	Intel® Celeron 4205U	Intel® Celeron 3865U	Intel® Celeron 5205U
Video Engine Processor		Intel® UHD Graphics	Intel® UHD Graphics	Intel® UHD Graphics	Intel® UHD Graphics
Max Resolution		HDMI 3840 x 2160@30Hz VGA 1920 x 1080@60Hz	HDMI 3840 x 2160@30Hz VGA 1920 x 1080@60Hz	HDMI 3840 x 2160@30Hz VGA 1920 x 1080@60Hz	HDMI 3840 x 2160@30Hz VGA 1920 x 1080@60Hz
Memory		2 x DDR4 2666/2400 MHz, Max. 64GB	2 x DDR4 2666/2400 MHz, Max. 64GB	2 x DDR4 2133 MHz, Max. 32GB	2 x DDR4 2666/2400 MHz, Max. 64GB
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	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	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	1	1	1
	VGA Port	1	1	1	1
I/O Port	USB 3.2 Gen1 (Bottom)	2	2	2	2
	USB 3.2 Gen1 (Side)	2	2	-	2
	USB 2.0 (Bottom)	2	2	2	2
	USB 2.0 (Side)	-	-	2	-
	COM Port	Optional	2 x RS232 (Max. 4)	2 x RS232 (Max. 4)	Optional
	Line out/Mic in	1/1	1/1	1/1	1/1
Network	LAN	1 x Intel® 1G LAN	1 x Intel® 1G LAN	1 x Intel® 1G LAN	1 x Intel® 1G LAN
	Wifi	Optional	Realtek 802.11 a/b/g/n/ac Bluetooth 4.2	Realtek 802.11 b/g/n Bluetooth 4.1	Optional
Communication	Webcam	2M FHD	2M FHD	2M FHD	2M FHD
	Microphone	Capacitor	Capacitor	Capacitor	Capacitor
	Speaker	2 x 2W	2 x 2W	1 x 2W	2 x 2W
VESA Mount		Support 100 x 100 mm	Support 100 x 100 mm	Support 100 x 100 mm	Support 100 x 100 mm
Dimension (W/H/D) mm		487 x 321 x 44	393.6 x 272.5 x 39.8	299 x 203 x 50	391 x 327 x 42
Weight	NW (kg)	4.29	3.25	2.47	3.13
	GW (kg)	5.62	4.5	3.39	4.16
Certification		CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI, RED	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI, RED	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI
Operating Temperature (°C)		0~40	0~40	0~40	0~40
Adapter		19V/3.42A 65W external adapter	19V/3.42A 65W external adapter	19V/3.42A 65W external adapter	19V/3.42A 65W external adapter
Operating System		Windows 10/11 64bit, Linux	Windows 10/11 64bit, Linux	Windows 10/11 64bit, Linux	Windows 10/11 64bit, Linux
Optional Accessories		PCL71, POS01, WWN02	POS03, WWN02, PBCN01, PNFC03	POS02, WWN02, PMSR01, PMSR02, PNFC01	PCL71, POS01, WWN02
IP Level		Front Panel IP54	Front Panel IP54	Front Panel IP54	Front Panel IP54



NS02 V2 series

FANLESS 0.5-LITER ANDROID PC

FOR BASIC DIGITAL SIGNAGE

Shuttle NS02A V2/NS02E V2 is one of the most affordable models made for digital signage applications. The NS02 V2 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 V2 can support PoE (Power over Ethernet), allowing users easily to do on-site installation without any wire and AC adapter. The NS02 V2 series comes with pre-installed digital signage software that user can easily manage the signage content through their own mobile devices.



FEATURES

- Supports 4K UHD playback via HDMI 2.0
- Supports 2.5" SATA HDD/SSD and SD card Reader
- Built-in Gigabit Ethernet with PoE (NS02E V2 only)
- Built-in 2G memory and 32G eMMC
- WiFi 802.11 a/b/g/n/ac & Bluetooth 5.0
- Android 8.1

Model	NS02A V2	NS02E V2
CPU	Rockchip RK3368 Octa Core 1.5GHz (ARM Cortex-A53)	
Max Resolution	HDMI 3840 x 2160@60Hz	
Memory	DDR3L 2GB onboard	
Storage	16GB eMMC (default) / 32GB (option) 1 x 2.5" HDD/SSD (max. 7 mm)	
I/O Port	HDMI Port	1 x HDMI 2.0
	USB 2.0 (Front)	2
	USB 2.0 (Rear)	2
	Line out/Mic in Combo	1
Network	LAN	1 x Realtek Gigabit LAN
	Wifi	1 x Realtek Gigabit LAN (Support PoE, 802.3at)
VESA Mount	Bracket included	
Dimension (L/W/H) mm	141 x 141 x 29	
Weight	NW (kg)	0.27
	GW (kg)	0.65
Certification	CB, CE, BSMI, cTUVus, FCC, RCM, VCCI, R&TTE	
Operating Temperature (°C)	0~40	
Chassis	Plastic	
Power Supply	12V/2A 24W external adapter	Support POE (PD), 802.3at
Operating System	Android 8.1	



D230

SMART SHELF SIGNAGE WITH FACIAL RECOGNITION

FOR RETAIL SECTOR

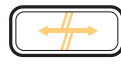
For retailers who want to optimize shelf space to increase revenue with the innovative signage installation, the D230 is a perfect choice. The platform utilizes a 23.1" ruggedized shelf display combined with facial recognition and high definition sensors to play optimal multimedia contents, provide customer insights, and allow for content triggering on detected age and gender. Together with flexible split-screen feature, users can play content in multiple combinations to achieve advertising goals.



FACIAL RECOGNITION



MULTIMEDIA



SPLIT SCREEN



5xDISPLAYS



NONSTOP

FEATURES

- 23.1 bar-type shelf signage solution
- Detect the gender and age of users to play advertisement
- Split screens for videos, pictures and text demo separately and simultaneously
- Advanced power supply design to connect up to 5 devices
- 24/7 certified in 0-40°C environments
- Android 8.0/ iOS 11 support

Model		D230
CPU		Six-core processor, 1.8GHz
Storage		16GB eMMC
Color		Black
Screen		23.1" LCD (1920 x 158), 400nits
I/O Port	USB 2.0	1
	SD card	1
	USB 2.0 (Side)	2
	RJ45	1
	Line out	1
	SIM card	1 (optional)
Network	LAN	10/100 Mbps
	Wifi	802.11 a/b/g/n/ac
	4G LTE	M.2 type (optional)
Communication	Webcam	2M FHD
	Speaker	1 x 2W
VESA Mount		100x100 mm, 75x75mm, 50x50mm
Dimension (L/W/H) mm		603 x 75 x 29
Certification		CB, CE, ETL, FCC, VCCI, RCM, BSMI
Operating Temperature (°C)		0~40
Adapter		12V/2A 24W wall mount adapter
		POE (optional)
Operating System		Android
Optional Accessories		PD230
IP Level		Front panel IP54 certified

EN01 series

ENTERING A NEW ERA OF IOT

INTELLIGENT PLATFORM FOR DATA-INTENSIVE EDGE APPLICATIONS

Based on a wide selection of Intel® processor lineup, the low-power, fanless and tiny form factor Shuttle EN01 series serves an intelligent platform for data-intensive IoT edge applications. Areas of use include the industrial automation sector as well as the transportation and communications field.

Model		EN01J3	EN01J4	EN01E
Cooling system		Fanless	Fanless	Fanless
CPU		Intel® Apollo Lake Celeron J3355 10W processor	Intel® Apollo Lake Celeron J4205 10W processor	Intel® Apollo Lake Pentium E3940 10W processor
Chipset		Integrated in CPU	Integrated in CPU	Integrated in CPU
Video Engine Processor		Intel® HD Graphics 500	Intel® HD Graphics 505	Intel® HD Graphics 500
Max Resolution		HDMI 3840 x 2160@30Hz	HDMI 3840 x 2160@30Hz	HDMI 3840 x 2160@30Hz
Memory		4GB / LPDDR4 2400 MHz	8GB / LPDDR4 2400 MHz	8GB / LPDDR4 2400 MHz
Storage		Max. 64GB eMMC 1 x micro SD card slot	Max. 64GB eMMC 1 x micro SD card slot	Max. 64GB eMMC 1 x micro SD card slot
Expansion Slots		1 x M.2 3042, B Key	1 x M.2 3042, B Key	1 x M.2 3042, B Key
Video Output		1 x HDMI 1.4	1 x HDMI 1.4	1 x HDMI 1.4
I/O Port	USB 3.2 Gen1	2	2	2
	USB 2.0 (Micro A/B)	1	1	1
	SIM slot	1 x Nano SIM slot	1 x Nano SIM slot	1 x Nano SIM slot
Network	LAN	1 x Intel® Gigabit LAN 1 x POE-PD or POE-PSE (Optional)	1 x Intel® Gigabit LAN 1 x POE-PD or POE-PSE (Optional)	1 x Intel® Gigabit LAN 1 x POE-PD or POE-PSE (Optional)
VESA		Bracket included	Bracket included	Bracket included
Dimension (L/W/H) mm		92.4 x 54.4 x 90	92.4 x 54.4 x 90	92.4 x 54.4 x 90
Weight	NW (kg)	0.48	0.48	0.48
	GW (kg)	1.03	1.03	1.03
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
Operating Temperature (°C)		0~50	0~50	-20~60
Chassis		Metal	Metal	Metal
Operating System		Windows 10 64bit, Linux	Windows 10 64bit, Linux	Windows 10 64bit, Linux
Optional Accessories		MCAP01, PLA01, PSE01, PD01	MCAP01, PLA01, PSE01, PD01	MCAP01, PLA01, PSE01, PD01



MINIATURE



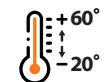
FANLESS



DIN RAIL



VESA MOUNT



WIDE TEMP RANGE

FEATURES

- Ultra-small industrial-grade PC, measuring only 92 x 54 x 90 mm
- Powered by Intel® Atom™ E3940 / Pentium® J4205 / Celeron® J3355 processor
* EN01 barebone is also available for Nvidia Jetson TX2
- 2x USB, 1x micro USB, HDMI, Giga LAN, M.2 and Micro SD reader
- Optional PoE function (PSE01/PD01) for simplified on-site installation
- Optional video capture function for surveillance and security uses

BPCWL02/BPCWL03

POWERFUL AND FANLESS DESIGN

WITH FLEXIBLE CONNECTIVITY AND FUNCTIONALITY

The BPCWL02/BPCWL03 are powered by the Intel® Whiskey Lake-UE platform with the Intel UHD graphics engine, capable of offering the high-definition imaging with the dual independent display. Designed to meet a variety of IoT application needs, the fanless system combines multiple I/O interfaces includes three RS232, eight USB ports, and two HDMI outputs. The BPCWL02/BPCWL03 have built-in dual Intel® Gigabit LAN support for Wake on LAN and teaming function, furthermore with optional WiFi 802.11ac + BT 4.2 module which makes high-speed data conveying possible and better compatibility for business network environment. Suitable to be used in digital signage, kiosk, data acquisition, industrial automation, and so on.



FEATURES

- Intel® Whiskey Lake-UE Processors, from commercial to industrial
- Fanless thermal and robust aluminum chassis
- Modularity for I/O configurations to meet diverse application needs
- Multiple mounting supports : VESA, Ear Mount, DIN-rail
- Dual independent displays via HDMI outputs
- Built-in Intel® i211 and i219 Dual Gigabit LAN
- Operating Temperature
BPCWL02 : 0°C ~ 40°C
BPCWL03 : -20°C ~ 60°C



		BPCWL02	BPCWL03
System	CPU	8 th Gen. Intel® Whiskey Lake Core i3-8145UE (default) Optional : i5-8365UE, i7-8665UE, Celeron® 4305UE	
	Memory	2 x 260 pin SO-DIMM up to 64GB Dual Channel DDR4 2400MHz	
	BIOS	AMI UEFI 64 Mbit	
Graphics	Chipset	Intel UHD Graphics	
	Display Interface	2 x HDMI 1.4b : 4096 x 2160@30Hz Supports dual displays	
Storage	Internal	1 x M.2 2280 M key (PCIe NVMe / SATA)	
Audio	Audio Codec	Realtek ALC662/ALC888S 2-channel	
Network	Ethernet	2 x Intel® Gigabit LAN	
	WLAN	Realtek RTL8821CE 802.11a/b/g/n/ac + Bluetooth 4.2 WLAN card M.2 2230 E key (Optional) External antenna (Dipole) x2 (Optional)	
I/O Interface	LAN	2 x RJ-45 (10/100/1000Mbps) Support Wake On LAN	
	Serial Ports	1 x RS-232 (DB-9) 2 x RS-232/422/485 (DB-9) (RS-232 with power supply: ring in/ 5V (standard) & 12V (with specific optional board))	
	USB	4 x USB3.2 Gen 1 (Type A) 4 x USB2.0	
	Audio	1 x Line-out 1 x Mic-in	
Power	Adapter	19V/4.74A 90W external adapter	19V/7.89A 150W external adapter
	Type	With option wide range board, MB support 9-36V DC-in	
Watchdog Timer	Watchdog	Support watchdog	
OS Support	OS Support	Windows 10 64bit Linux 64bit	
Mechanism	Mounting	VESA Mount 75 x 75 mm Ear Mount 256 x 100 mm Din Rail	
	Dimension (L/W/H) mm	245 x 169 x 57	245 x 169 x 57
	Weight	2.85kg	2.85kg
Environment	Operating Temperature	0°C ~ 40°C	-20°C ~ 60°C
	Relative Humidity	20% - 80% RH (non-condensing)	20% - 80% RH (non-condensing)
	EMC	CE, FCC, VCCI, BSMI, RCM	CE, FCC, VCCI, RCM
	Safety	CB, cTUVus, BSMI	CB, cTUVus

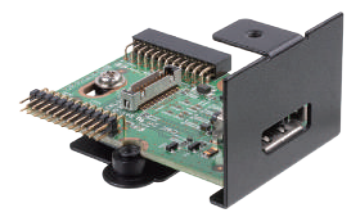
I/O CUSTOMIZATION KIT

BPCWL02 and BPCWL03 designed with a flexible customization kit, the front panel I/O can be configured to fulfill the needs of different applications.

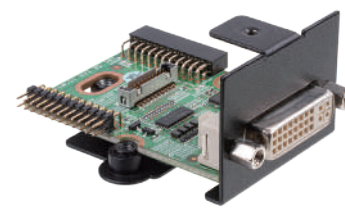
HDMI 1.4 VIDEO OUTPUT
customization kit



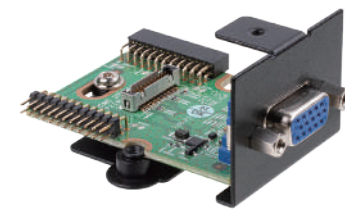
DISPLAYPORT VIDEO OUTPUT
customization kit



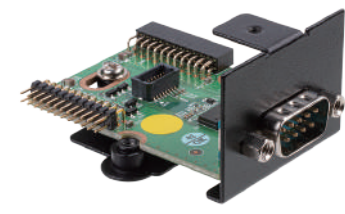
DVI-I VIDEO OUTPUT
customization kit



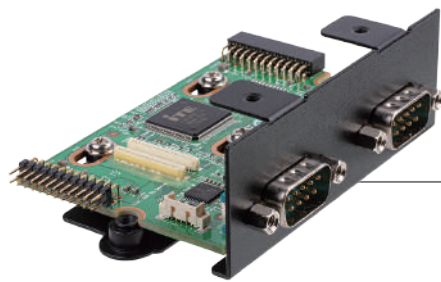
VGA VIDEO OUTPUT
customization kit



1X COM PORT
customization kit (RS232)



4X USB 2.0 PORTS
customization kit



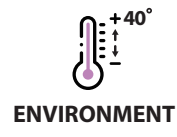
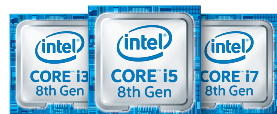
2X COM PORTS
customization kit (RS232/RS422/RS485)



P21WL01

21.5" MULTI-TOUCH PANEL COMPUTER

The P21WL01 is an industrial-grade panel PC integrating a 21.5-inch FHD TFT LCD panel and supporting 10-point touch function. Powered by Intel Whiskey Lake-UE Core i platform, the fanless system features an IP65 front bezel design and rugged steel housing, providing the powerful and reliable performance of multitasking capabilities. Rich I/Os include four USB 3.2 Gen1, three COM ports, dual Intel Gigabit LAN, making the system easily integrate into a variety of business and industrial applications.



FEATURES

- Supports Intel® Whiskey Lake-UE Processors, from commercial to embedded
- IP65 front panel waterproof protection
- I/O interfaces : 1 x HDMI 1.4, 1 x DVI-I, 4 x USB 3.2 Gen1, 1 x RS232, 2 x RS232 /422 /485 [RS232 with power supply : ring in/ 5V (standard) &12V (with specific optional board)], 2x RJ-45
- Dual Intel Gigabit LAN and dual external antenna (need to use chassis with external antenna hole)

		P21WL01
System	CPU	8 th Gen. Intel® Whiskey Lake Core i3-8145UE (default) Optional : i5-8365UE, i7-8665UE, Celeron® 4305UE
	Memory	2 x 260 pin SO-DIMM up to 64GB Dual Channel DDR4 2400MHz
	BIOS	AMI UEFI 64 Mbit
Display & Touch Screen	Display	21.5" 1920 x 1080 Full HD TFT LED with 10-Point Projected Capacitive Multi-Touch
	Viewing Angle (H/V°)	89 (left), 89 (right), 89 (up), 89 (down)
	Brightness	350/300 cd/m2
	Contrast	1000 : 1
	Backlight Lifetime	30,000 hrs
Graphics	Chipset	Intel UHD Graphics
	Display Interface	1 x HDMI 1.4b: 4096 x 2160@30Hz 1 x DVI-I: 1920 x 1080@60Hz Supports triple displays
Storage	Internal	1 x M.2 2280 M key (PCIe NVMe / SATA) 1 x Swappable 2.5" SSD SATA 3.0 drive bay (compatible 7mm)
Audio	Audio Codec	Realtek ALC662/ALC888S 2-channel
Network	Ethernet	2 x Intel® Gigabit LAN
	WLAN	Realtek RTL8821CE 802.11a/b/g/n/ac + Bluetooth 4.2 (M.2 2230 E key) with 2 internal antenna(default)/external antenna(optional)
I/O Interface	LAN	2 x RJ-45 (10/100/1000Mbps) Support Wake On LAN
	Serial Ports	1 x RS-232 (DB-9) 2 x RS-232/422/485 (DB-9) (RS-232 with power supply: ring in/ 5V (standard) &12V (with specific optional board))
	USB	4 x USB3.2 Gen 1 (Type A)
	Audio	1 x Line-out 1 x Mic-in
	Power	Adapter
Watchdog Timer	Watchdog	Support watchdog
OS Support	OS Support	Windows 10 64bit Linux 64bit
Mechanism	IP Rating	IP65 Front Panel Protection
	Mounting	VESA Mount 100 x 100 mm
	Dimension (W/H/D) mm	543 x 334 x 49.9
	Weight	7.6kg
Environment	Operating Temperature	0°C ~ 40°C
	Storage Temperature	-20°C ~ 60°C
	Relative Humidity	20% - 80% RH (non-condensing)
	EMC	CE, FCC, VCCI, BSMI
	Safety	cTUVus, CB, BSMI
	RF	US, EU, Taiwan



INTERACTIVE SELF-SERVICE KIOSK

The kiosk is a self-service terminal that integrates hardware and software, allows many businesses to offer automation, efficiency, and novel user experience in many ways. Shuttle's interactive kiosks equipped with 8th Gen Intel® Whiskey Lake or Rockchip ARM processor are designed with powerful computing, touch screen, and flexible I/O configuration while it also can be incorporated with a wide range of peripherals in self-service applications such as 1D/2D scanner, receipt printer, NFC, webcam, and payment devices. They can be customized based on the functional requirements and service purposes to meet the business's needs from entertainment to healthcare for ticketing, payments, check-in, wayfinding, information delivery, etc.

FEATURES

- Supports Intel® Whiskey Lake-U/UE processors or Rockchip ARM processor
- IP65 front panel waterproof protection
- Sturdy and robust SECC metal enclosure
- Mounting supports: Pole mount, Counter mount and Wall mount
- Supports a wide range of peripherals of 1D/2D scanner, thermal printer, NFC, IC Card reader, payment device and web cam for self-service applications



15.6/21.5/27.5-INCH
TOUCH PANEL



FLEXIBLE
CUSTOMIZATION



ANDROID



WINDOWS



LINUX



		K15WL01	K21WL01	K27WL04	K15RK01	K21RK01	K27RK04	
System	Processor	Intel® Whiskey Lake-U platform, Core™ i7 -8565U / i5-8265UE / i3-8145UE / Celeron-4305UE			Rockchip RK3368 Octa-core 1.5GHz (ARM Cortex-A53)			
	Memory	2 x DDR4 2400/2666MHz, Max. 32GB			DDR3L 2GB			
	Storage	1 x 2.5" HDD / SSD SATA3.0 drive bay (max. 7mm) 1 x M.2 2280 B+M Key (PCIe NVMe / SATA)			16GB eMMC onboard			
	Graphics	Intel® UHD Graphics			-			
	Operation System	Windows 10 64bit / Linux 64bit			Android 8.1			
Display & Touch	LCD	15.6" LED	21.5" LED	27.5" LED	15.6" LED	21.5" LED	27.5" LED	
	Resolution	1920 x 1080 (Full HD)	1920 x 1080 (Full HD)	1920 x 1080 (Full HD)	1920 x 1080 (Full HD)	1920 x 1080 (Full HD)	1920 x 1080 (Full HD)	
	Screen Position	Landscape	Portrait	Portrait	Landscape	Portrait	Portrait	
	Touch	True-Flat PCAP Multi Touch			True-Flat PCAP Multi Touch			
	Viewing Angle (H/V°)	89 (left), 89 (right), 89 (up), 89 (down)			89 (left), 89 (right), 89 (up), 89 (down)			
	Brightness	250 cd/m ²	300 cd/m ²	300 cd/m ²	250 cd/m ²	300 cd/m ²	300 cd/m ²	
	Contrast	1000 : 1			1000 : 1			
	Backlight Lifetime	30,000 hrs			30,000 hrs			
Communication	Ethernet	1 x Intel® Gigabit LAN			1 x Realtek Gigabit LAN			
	Wireless	802.11a/b/g/n/ac + Bluetooth 4.2 with 2 external antenna			802.11b/g/n + Bluetooth 4.0 with 2 external antenna			
I/O Interface	USB	4 x USB3.2 Gen1 (Type A)			8 x USB2.0 for USB Peripherals 1 x USB2.0 (OTG)			
	Serial Port	1 x RS232 (DB-9)			-			
	Audio	2 x Internal 2W speaker			2 x Internal 2W speaker			
Peripherals	Camera	2MP FHD camera			2MP FHD camera			
	IC Card Reader	Friction Type User Card PC/SC 1.0 Standard Approval CPU card and Memory card compliant			Friction Type User Card PC/SC 1.0 Standard Approval CPU card and Memory card compliant			
	NFC/RFID Reader	EM compatible 64 bits, A SK Manchester coding or Mifare: ISO14443A standard			EM compatible 64 bits, A SK Manchester coding or Mifare: ISO14443A standard			
	Scanner	1D/2D barcode scanner			1D/2D barcode scanner			
	Printer	3" thermal printer w/auto cutter, 200mm/sec			3" thermal printer w/auto cutter, 200mm/sec			
Power	Adapter	19V/4.74A 90W external adapter			19V/4.74A 90W external adapter			
Mechanism	Mounting	Counter-mount, Pole-mount, Wall-mount			Counter-mount, Pole-mount, Wall-mount			
	Counter mount	Dimension (WxHxD)	370 x 310 x 500 mm	370 x 310 x 825 mm	370 x 517 x 870 mm	370 x 310 x 500 mm	370 x 310 x 825 mm	370 x 517 x 870 mm
		Weight	22kg	35kg	36kg	22kg	35kg	36kg
Environment	Operating Temperature	0 ~ 35°C			0 ~ 35°C			
	Storage Temperature	-20°C ~ 60°C			-20°C ~ 60°C			
	Relative Humidity	20% - 80% RH (non-condensing)			20% - 80% RH (non-condensing)			
Certification	EMC	CE, FCC			CE, FCC			
	Safety	CB			CB			

ACCESSORY LIST

Item	Description	Compatible with
J-RS232	1x COM expansion	SH310R4, SH310R4V2, SH370R6, SH370R6V2, SH370R8
PCL71	2x COM, 1x LPT expansion	P90U, P92U, X50V6, X50V7, X50V8
PHD3	2.5" HDD/SSD expansion frame	SH310R4, SH310R4V2, SH370R6, SH370R6V2, SH370R8, SH510R4, SH570R6, SH570R8, SW580R8
PHD4	3.5" HDD expansion frame	XH310, XH310V, XH310R, XH310RV
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
PNFC03	NFC module	P51U
POS01	4x COM, 1x LPT, 1x DIO expansion	P90U, P92U, X50V6, X50V7, X50V8
POS02	2x USB2.0, 1x RJ11, 4x COM (COM3 support RS232/422/485 0V,5V,12V) expansion	P20U, P22U
POS03	2x USB2.0, 1x RJ11, 4x COM (COM3 support RS232/422/485 0V,5V,12V) expansion	P51U, P52U
PS01	Vertical stand	XH310, XH310V, XH310R, XH310RV

Item	Description	Compatible with
PS02	Vertical stand	DH02U-series, DH310, DH310V2, DH310S, DH370, DH410, DH410S, DH470, DX30, DL10J, DL20N series, NC10U-Series
PV02	VESA kit	XC60J, XH310, XH310V, XH310R, XH310RV
PV05	VESA kit	NS02A, NS02E
PVG01	VGA adapter	DH310, DH310V2, DH310S, DH370, DH410, DH410S, DH470, DX30, DA320, DH32U series
WLN-M	Wi-Fi expansion	DH02U-series, DH32U series, DH310, DH310V2, DH310S, DH370, DH410, DH410S, DH470, DL20N series, SH310R4, SH310R4V2, SH370R6, SH370R6V2, SH370R8, SH510R4, SH570R6, SH570R8, SW580R8, XC60J, XH110G, XH310, XH310V, XH310R, XH310RV
WWN01	4G / LTE connection module	DL10J, DL20N series
WWN02	4G / LTE antenna set	P20U, P51U, P90U, P22U, P52U, P92U, X50V7, X50V8
WWN03	4G / LTE antenna set	DS10U series, DH32U series, DH410, DH410S, DH470, DA320, DL20N series, XH510G2, DS20U series
MCAP01	FHD Capture Card	EN01 series
PD01	PoE PD Module	EN01 series
PLA01	4G/LTE Antenna Kit	EN01 series
PSE01	POE PSE Module	EN01 series

