

# Shuttle®

# Shuttle®



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## Product Guide 2017

Superb for Home, Work, Business and Industrial applications

## About Shuttle

Established in 1983, Shuttle Inc. is based in Taiwan with an extensive worldwide network of subsidiaries, resellers, partners and suppliers. With over 30 years in desktop relative design, manufacturing and working with Intel, AMD, and NVIDIA, Shuttle has the affirmed superior quality of products and services. Keeping “Innovation, Quality, Integrity and Service” in mind, Shuttle produces the best quality products at a competitive cost to meet its customers’ needs. Shuttle has received numerous international awards due to its advanced thermal technology and mechanical design and has passed ISO 9001 and ISO 14001 certifications.



Since the creation of the world’s first-ever mini-PC in 2001, Shuttle Inc. has been recognized as an industry leading designer and manufacturer of small form factor (SFF) computers and accessories for consumer and commercial sectors. Experienced in small form factors and thermal technology, Shuttle XPCs are now applied to Digital Signage, Point-Of-Sale, Kiosk, and Access control vertical solutions. Shuttle offers its vertical customers the most cost effective and customizable hardware solution options. Shuttle’s product profile includes a range of entry level to high performance Slim PCs, Mini PCs, All-in-One PCs, and Biometric solutions. All Shuttle products use the highest quality materials and parts, with excellent cooling technology and low-power consumption.

Whether your business operates in hospitality, retail, banking, transportation, government, healthcare, education, or security, Shuttle can provide the solution you’re looking for to increase your competitiveness.

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Target, engage, and inform with Shuttle solutions



# High Performance Slim PCs for Office and Kiosk

## XH270, XH170V, XH110 Series

Shuttle's XH270, XH170V and XH110 series include four powerful 3-liter slim PCs that feature robust performance and are suitable for not only home media, but also for office or industrial applications. With support Intel® Kabylake/Skylake processors, this series can play 4K video content and offer multiple video outputs to drive up to three independent screens (XH270 and XH170V only). With huge storage capacity, the series allows for up to four 2.5" HDD/SSD or one 3.5" HDD\* (except for XH270) for a wide range of applications. Thanks to its advanced heat pipe and smart fan design, the series is 24/7 certified and runs quietly and reliably cool in 0-50°C temperatures, ideal for commercial environments such as office, digital signage, Kiosk, POS, and POI.

\*Note: Installation of ODD is not compatible with 3.5" HDD configuration.  
XH270 is not support installation of ODD.

- Strong ability to connect peripherals
- Compact and VESA mountable
- 24/7 Certified in 0-50°C Environments
- Supports up to three independent screens
- Dual Intel® Gigabit LAN Network (XH270, XH110V/XH110 only)



RS232



PS/2 Port



0°C~50°C



Triple Display

Dual  
Giga LANXH110 series  
only

# A Connectable and Efficient Slim PC to Power Vending Machine and Kiosk

## XC60J

The new 3-liter slim PC XC60J features robust performance with a fanless cooling design, powered by the latest Apollo Lake SoC 14nm processor. Support up to eight COM ports, the device boast strong connectivity for peripherals. The XC60J delivers higher processing power, increased energy efficiency, and integrated graphics that is built to meet the demands of commercial markets. The XC60J offers two video outputs and can natively drive dual displays at up to 4K resolution. It is 24/7 certified and runs reliably cool in 0-40°C temperatures environments. The XC60J provides excellent peripheral connectivity to drive highly interactive Kiosk, vending machine, and POS applications.

- Built-in 8 COM ports to connect peripherals
- Fanless design
- Supports 4K/ Ultra HD video playback
- 24/7 Certified in 0-40°C Environments
- Supports dual independent screen displays
- Supports Intel® Gigabit LAN Network



XC60J

# 4K High-performance Digital Signage Player

## DQ170, DH series, DS series, DX30 & DL10J

To meet the diverse digital signage market and ultra-high resolution display demands, Shuttle offers the right signage player for every scenario-including a range of entry level to high performance 1-liter Slim PCs. This series seamlessly plays 4K video content and supports multiple-screen displays.

Robust, compact and stylish, this series is housed in a metal chassis design for rugged durability. 24/7 certified, VESA mountable and reliable operation in up to 0-50°C of ambient temperatures make the series ideal for digital signage applications such as menu boards, retail locations, airports, hotel and everywhere you see a digital sign.



- Supports Intel® vPro™ Technology (DQ170 only)
- Fanless design (DS67/68/77 series, DX 30 & DGE10J only)
- Supports up to triple displays
- 24/7 certified in up to 0-50°C Environments
- Multiple I/O for great connectivity
- Supports 4K ultra HD
- Supports firmware TPM data encryption (Skylake/ Kabylake platform only)



Except for  
DH110SE

# Compact and Robust 4-display Digital Signage Player

## DH02U series

The all-new DH02U series 1-liter slim PC is equipped with the latest Intel® Kabylake CPUs and with adding AMD Radeon™ RX460 Graphics card then users can have better graphics ability in this small form factor. With its powerful graphics engine, the DH02U series enables smooth 4K playback at 60Hz. This model is the first 1-liter slim PC which can support up to four independent displays via four HDMI video outputs. The DH02U series is an impressively versatile and high-performance player made to be easily integrated into a variety of digital signage markets. Its slim metal chassis, including VESA mount capability, versatile connectivity and reliable operation in up to 50°C temperatures makes the DH02U series ideal for video wall, Digital Signage, Kiosk, Surveillance, and other professional applications.



- Supports four HDMI 2.0 video outputs
- Supports 4K @60Hz resolution
- 24/7 Certified in 0-50°C Environments
- Supports four independent screen displays
- Supports Intel® Gigabit LAN Network





Model	XH270	XH170V	XH110V/XH110	XC60J	DH02U series	DH270	DQ170	DH170	
Cooling system	Smart fan	Smart fan	Smart fan	Fanless	Smart fan	Smart fan	Smart fan	Smart fan	
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® Kabylake/Skylake LGA1151 socket Core i3/i5/i7, Pentium, Celeron 65W processor	Intel® Celeron J3355	Intel® i5-7200U Intel® i7-7500U (optional)	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	
Chipset	Intel® H270	Intel® H170	Intel® H110	Integrated in CPU	Integrated in CPU	Intel® H270	Intel® Q170 support vPro™	Intel® H170	
Video Engine Processor	Intel® HD Graphics series engine integrated in CPU (Dynamic Video Memory)	Intel® HD Graphics series engine integrated in CPU (Dynamic Video Memory)	Intel® HD Graphics series engine integrated in CPU (Dynamic Video Memory)	Intel® HD Graphics 500	AMD Radeon™ RX 460	Intel® HD Graphics series engine integrated in CPU (Dynamic Video Memory)	Intel® HD Graphics series engine integrated in CPU (Dynamic Video Memory)	Intel® HD Graphics series engine integrated in CPU (Dynamic Video Memory)	
Video Capability	4K	4K	4K	4K	4K	4K	4K	4K	
Memory	2 X DDR4 2133/2400 MHz, Max. 32GB	2 X DDR3L 1600 MHz, Max. 32GB	2 X DDR3L 1600 MHz, Max. 32GB	2 X DDR3L 1866 MHz, Max. 8GB	2 X DDR4 2133 MHz, Max. 32GB	2 X DDR4 2133/2400 MHz, Max. 32GB	2 X DDR3L 1600 MHz, Max. 32GB	2 X DDR3L 1600 MHz, Max. 32GB	
Storage Interface	SATA6G	SATA6G	SATA6G	SATA6G	SATA6G	SATA6G / SD card reader	SATA6G / SD card reader	SATA6G / SD card reader	
Storage Bay	4 X 2.5" HDD or SSD	1 X 2.5" HDD or SSD 1 X 12.7mm Slim ODD	1 X 2.5" HDD or SSD 1 X 12.7mm Slim ODD	1x3.5"/2.5" HDD or SSD	1 X 2.5" HDD or SSD	1 X 2.5" HDD or SSD	1 X 2.5" HDD or SSD	1 X 2.5" HDD or SSD	
Expansion Slot	Mini-PCIe/M.2 MxM	(1) M.2 Type M (2280) (1) M.2 Type A/E (2230)	(1) M.2 Type M (2280) (Support SATA interface only) (1) Half size Mini-PCIe	(1) M.2 Type M (2280) (1) M.2 Type A/E (2230)	(1) M.2 Type M (2280) (1) M.2 Type A/E (2230) (1) MxM 3.0 Type A	(1) M.2 Type M (2280) (1) M.2 Type A/E (2230)	(1) M.2 Type M (2260) (1) Half size Mini-PCIe	(1) M.2 Type M (2260) (1) Half size Mini-PCIe	
Video output	VGA Port	1	-	1 (optional)	-	1 (optional)	1 (optional)	1 (optional)	
	HDMI Port	1	1	1	4*HDMI 2.0	1*HDMI 2.0 + 2*HDMI 1.4	1	1	
	DisplayPort	1	2	1	-	-	2	2	
I/O Port	USB 2.0	4	4	4	2	4	4	4	
	USB 3.0	4	4	4	2	3(one supports USB 3.0-type C)	4	4	
	eSATA Port	-	1	-	-	-	-	-	
	COM Port	(1) RS232	(1) RS232	(1) RS232, (1) RS232/422/485 Support 5V/12V	(7) RS232, (1) RS232/422/485, Support 5V/12V	(1) RS232	(1) RS232, (1) RS232/422/485, Support 5V/12V	(1) RS232, (1) RS232/422/485, Support 5V/12V	(1) RS232, (1) 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	-/1/1	-/1/1	
Ethernet/WiFi	Intel® 10/100/1000 Mbps Ethernet (RJ45 X2, support teaming feature) M.2 WiFi module (optional)	Intel® 10/100/1000 Mbps Ethernet Mini-PCIe WiFi module (optional)	Intel® 10/100/1000 Mbps Ethernet (RJ45 X2, support teaming feature) M.2 WiFi module (optional)	Intel® 10/100/1000 Mbps Ethernet M.2 WiFi module (optional)	Intel® 10/100/1000 Mbps Ethernet M.2 WiFi module (optional)	Intel® 10/100/1000 Mbps Ethernet (RJ45 X2, support teaming feature) M.2 WiFi module (optional)	Intel® 10/100/1000 Mbps Ethernet (RJ45 X2, support teaming feature) Mini-PCIe WiFi module (optional)	Intel® 10/100/1000 Mbps Ethernet (RJ45 X2, support teaming feature) Mini-PCIe WiFi module (optional)	
Kensington Lock Hole	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
VESA Mounting Support	Yes(optional)	Yes(optional)	Yes (optional)	Yes (optional)	Yes	Yes	Yes	Yes	
Dimension (L/W/H) mm	240 x 200 x 72	240 x 200 x 72	240 x 200 x 72	240 x 200 x 72	190 x 165 x 43	190 x 165 x 43	190 x 165 x 43	190 x 165 x 43	
Weight	NW (kg)	TBD	2.2	2.2	TBD	1.3	1.3	1.3	
	GW (kg)	TBD	3.5	3.5	TBD	2.05	2.05	2.05	
Certification	CB,CE,BSMI,ETL,FCC,RCM,VCCI,RoHS	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,RoHS,VCCI,R&TTE	CB,CE,BSMI,ETL,FCC,RCM,VCCI,RoHS	CB,CE,BSMI,ETL,FCC,RCM,RoHS	CB,CE,BSMI,ETL,FCC,RCM,RoHS	
Operating Temperature (°C)	0~50	0~50	0~50	0~40	0~50	0~50	0~50	0~50	
Chassis	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal	
Adapter	120W external adapter	90W external adapter	90W external adapter	65W external adapter	120W external adapter	90W external adapter	90W external adapter	90W external adapter	
Operating System	Windows 7 64bit (Skylake) / 10 64bit Linux	Windows 7 64bit (Skylake) / 8.1 64bit (Skylake) / 10 64bit, Linux	Windows 7 64bit (Skylake) / 8.1 64bit (Skylake) / 10 64bit, Linux	Windows 10 64bit, Linux	Windows 10 64bit, Linux	Windows 7 64bit (Skylake) / 10 64bit, Linux	Windows 7 64bit (Skylake) 8.1 64bit (Skylake) / 10 64bit, Linux	Windows 7 64bit (Skylake) 8.1 64bit (Skylake) / 10 64bit, Linux	
Accessories(Optional)	PS01, PV02, PHD4, WLN-M	PS01, PV02, PHD4, WLN-P	PS01, PV02, PHD4, PVG01, WLN-M	WLN-M, PS01, PV02	WLN-M, PS02	WLN-M, PVG01, PS02	WLN-P, PVG01, PS02	WLN-P, PVG01, PS02	





Model	DH110	DH110SE	DS77U series	DS68U	DS67U series	DX30	DL10J	
Cooling system	Smart fan	Smart fan	Fanless	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 3855U or Intel® i3-6100U/i5-6200U/i7-6500U	Intel® Celeron J3355	Intel Gemini Lake SoC	
Chipset	Intel® H110	Intel® H110	Integrated in CPU	Integrated in CPU	Integrated in CPU	Integrated in CPU	Integrated in CPU	
Video Engine Processor	Intel® HD Graphics series engine integrated in CPU (Dynamic Video Memory)	Intel® HD Graphics series engine integrated in CPU (Dynamic Video Memory)	Intel® HD Graphics 600 series	Intel® HD Graphics 510	Intel® HD Graphics 500 series	Intel® HD Graphics 500	Intel® HD Graphics series engine integrated in CPU	
Video Capability	4K	4K	4K	4K	4K	4K	4K	
Memory	2 X DDR3L 1600 MHz, Max. 32GB	2 X DDR4 2133/2400 MHz, Max. 32GB	2 X DDR4 2133 MHz, Max. 32GB	2 X DDR3L 1600 MHz, Max. 32GB	2 X DDR3L 1600 MHz, Max. 32GB	2 X DDR3L 1866 MHz, Max. 8GB	2 X DDR4 2133 MHz, Max. 8GB	
Storage Interface	SATA6G / SD card reader	SATA6G / SD card reader	SATA6G / SD card reader	SATA6G / SD card reader	SATA6G / SD card reader	SATA6G / SD card reader	SATA6G / SD card reader	
Storage Bay	1 X 2.5" HDD or SSD	1 X 2.5" HDD or SSD	1 X 2.5" HDD or SSD	1 X 2.5" HDD or SSD	1 X 2.5" HDD or SSD	1 X 2.5" HDD or SSD	1 X 2.5" HDD or SSD	
Expansion Slot	Mini-PCIe/M.2 MxM	(1) M.2 Type M (2260) (1) M.2 Type A/E (2230)	(1) M.2 Type M (2280) (1) M.2 Type A/E (2230)	(1) M.2 Type M (2280) (1) M.2 Type A/E (2230)	(1) M.2 Type M (2242) (1) M.2 Type A/E (2230)	(1) M.2 Type M (2280) (1) M.2 Type A/E (2230)	(1) M.2 Type M (2280) (1) M.2 Type A/E (2230)	
	VGA Port	1 (optional)	-	-	1	-	1 (optional)	
Video output	HDMI Port	1	1	2	1	1	1	
	DisplayPort	1	1	1	-	1	1	
	USB 2.0	2	6	4	4	4	4	
I/O Port	USB 3.0	4	2	2	2	2	2	
	eSATA Port	1	-	-	-	-	-	
	COM Port	(1) RS232 ,(1) RS232/422/485, Support 5V/12V	-	(1) RS232 ,(1) RS232/422/485, Support 5V/12V	(1) RS232 ,(1) RS232/422/485, Support 5V/12V	(1) RS232 ,(1) RS232/422/485 Support 5V/12V	(1) RS232 ,(1) RS232/422/485 Support 5V/12V	(1) RS232, (1) 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	-/1/1
Ethernet/WiFi	Intel® 10/100/1000 Mbps Ethernet (RJ45 X2, support teaming feature) M.2 WiFi module (optional)	Realtek 10/100/1000 Mbps Ethernet (RJ45 X1) M.2 WiFi module (optional)	Intel® 10/100/1000 Mbps Ethernet (RJ45 X2, support teaming feature) M.2 802.11 b/g/n WiFi module	Intel® 10/100/1000 Mbps Ethernet (RJ45 X2, support teaming feature) M.2 802.11 b/g/n WiFi module	Intel® 10/100/1000 Mbps Ethernet (RJ45 X2, support teaming feature) M.2 802.11 b/g/n/ac+BT WiFi module	Intel®10/100/1000 Mbps Ethernet M.2 802/11 b/g/n WiFi module	Intel®10/100/1000 Mbps Ethernet M.2 802/11 b/g/n WiFi module	
Kensington Lock Hole	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
VESA Mounting Support	Yes	Yes (optional)	Yes	Yes	Yes	Yes	Yes	
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	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	1.3	1.5	
	GW (kg)	2.05	2.05	2.05	2.1	2.05	2.07	
Certification	CB,CE,BSMI,ETL,CCC,FCC,RCM,RoHS	CB,CE,BSMI,ETL,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	CB,CE,BSMI,ETL,FCC,RCM,RoHS,R&TTE, VCCI	CB,CE,BSMI,ETL,FCC,RCM,RoHS,VCCI	
Operating Temperature (°C)	0~50	0~50	0~40	0~40	0~40	0~40	0~40	
Chassis	Metal	Metal	Metal + Plastic	Metal + Plastic	Metal + Plastic	Metal	Metal	
Adapter	90W external adapter	90W external adapter	65W external adapter	65W external adapter	65W external adapter	40W external adapter	40W	
Operating System	Windows 7 64bit (Skylake) 8.1 64bit (Skylake) / 10 64bit, Linux	Windows 7 64bit (Skylake) / 10 64bit, Linux	Windows 10 64bit, Linux	Windows 7 64bit / 8.1 64bit / 10 64bit, Linux	Windows 7 64bit/ 8.1 64bit/ 10 64bit Linux	Windows 10 64bit, Linux	Windows 10 64bit, Linux	
Accessories(Optional)	WLN-M, PVG01,PS02	WLN-M,PS02	-	-	-	PVG01,PS02	PS02	



# A Palm-sized 4K Portable PC

## XPC nano

Shuttle's 0.5-liter XPC nano series has an elegant and stunning design to make it easy fit anywhere at home or office use. There are two NC series and NS series models. The NC series provides different CPU options: Intel® Celeron® and Core™ i3/i5/i7. Both series feature diverse I/O ports for great connectivity. Especially, the NC series is the first model support USB 3.0 Type-C (NC series only). With a new mechanism design, allows the NC series for easy installation of memory modules and storage. The case of NC series can accommodate one 2.5" HDD (up to 15mm) to provide a flexible storage space. Whether for seamless desktop performance to run an efficient office or to play 4K video for multimedia, XPC nano is your perfect choice.

- Supports 4K ultra HD
- VESA mount ready
- Supports dual-screen displays (NC series only)
- High-speed storage interface (NC series only)
- Supports WiFi Direct (NS series only)
- Pre-install digital signage software (NS series only)





Model	NC03U	NC03U3/U5/U7	NC02U	NC02U3/U5/U7	NS02A/E
CPU	Celeron 3865U	Core™ i3-7100U/ i5-7200U/i7-7500U	Celeron 3855U	Core™ i3-6100U/ i5-6200U/i7-6500U	Rockchip RK3368 Octa-core 1.5GHz
Chipset	Integrated in CPU		Integrated in CPU		NA
Video Engine Processor	Intel® HD Graphics 610	Intel® HD Graphics 620	Intel® HD Graphics 510	Intel® HD Graphics 520	NA
Video Capability	4K		4K		4K
Memory	2 x DDR4 2133MHz, Max 32GB		2 x DDR3L 1600MHz, Max 32GB		2GB memory onboard
Storage interface	SATA6G		SATA6G		16G eMMC onboard
Storage bay	1 x 2.5" HDD or SSD (15mm slim) and 1 x M.2 SSD		1 x 2.5" HDD or SSD (15mm slim) and 1 x M.2 SSD		1 x 2.5" HDD or SSD (7mm ultra slim)
Expansion slot	M.2 2230 AE and M.2 2280 M key		M.2 2230 AE and M.2 2280 M key		NA
Video output	HDMI *1 and DisplayPort*1 2 x USB3.0 ports (front), power button (One supports USB 3.0 type-c) 2 x USB2.0 ports (back)		HDMI *1 and DisplayPort*1 2 x USB3.0 ports (front), power button 2 x USB2.0 ports (back)		HDMI*1 2 x USB 2.0(front) 1 x USB 2.0(back)
I/O Port	SD card reader Combo jack 3.5mm for headphone + mic *1 1 X RS232 DC in		SD card reader Combo jack 3.5mm for headphone + mic *1 1 X RS232 DC in		SD card reader 3.5mm for line out NA DC in
Ethernet	Intel® 10/100/1000 Mbps Ethernet		Intel® 10/100/1000 Mbps Ethernet		10/100/1000 Mbps (support PoE 802.3at) 802.11 b/g/n WiFi and Bluetooth 4.0
Wireless LAN	M.2 802.11 b/g/n		M.2 802.11 b/g/n		
Kensington Lock	Yes		Yes		Yes
Stand	Yes (optional)		Yes		Yes
VESA Mount	Yes		Yes		Yes
Dimension L x W x H (mm)	142x142x42		142x142x42		141x141x29 (0.57L)
Weight	NW (kg)	0.4	0.4		0.27(NS02A)/0.3(NS02E)
	GW (kg)	1.2	1.2		0.81(NS02A)/0.68(NS02E)
Certification	CB, CE, BSMI, ETL, FCC, RCM, VCCI, RoHS		CB, CE, BSMI, ETL, FCC, RCM, VCCI RoHS, R&TTE		CB, CE, BSMI, ETL, FCC, RCM, VCCI, R&TTE
Chassis	Plastic		Plastic		Plastic
Adapter	65W external adapter		65W external adapter		24W external adapter (NS02E optional)
Operating system	Windows 10 64, Linux		Windows 7 64 bits, 8.1 64 bits 10 64 bits, Linux		Android 5.1



# nano

A palm-sized,  
0.5-liter fashionable  
PC-XPC nano



# AIO: All-in-One Touchscreen PCs for Business Solutions - X50 series

The X50 series All-in-One includes a 15.6" touchscreen for easy, intuitive control-excellent, made to drive interactive KIOSK, POS, POI, and queuing systems. This series front panel features IP54 design which is dust-protected and protected from splashing of water. The HDMI and VGA outputs enable dual-monitoring and the built-in webcam can be used for multi-media or online conferencing. Together with a full I/O connectivity and VESA mount compatibility, Shuttle's stylishly thin AIO series is ready for a variety of professional applications. With industrial-grade capacitors and 24/7 certified, the series can withstand 0-40°C temperatures and ensure long-term stability and silent, reducing power consumption and running virtually noiseless. The X50 series screen size is smaller and featured a sleek black and white chassis, mainly designed for business environments.



- Fanless Design
- IP54 Design
- Internal USB port-Theft protection
- 24/7 Certified
- Connect with peripheral devices



Model		X50V6	X50V5
Panel		15.6", Single touch	15.6", Single touch
CPU		Intel® Kabylake U Celeron 3865U	Intel® Skylake U Celeron 3855U
Chipset		Integrated in CPU	Integrated in CPU
Video Engine Processor		Intel® HD Graphics 610	Intel® HD Graphics 510
Memory		2X DDR4 2133 MHz, Max 32GB	1 X DDR3L 1600 MHz, Max 16GB
Storage		SATA 6G / SD card reader	SATA 6G / SD card reader
Expansion Slot	Mini-PCle / M.2	(1) M.2 2280 type M (1) M.2 2230 type A/E	(1) M.2 2280 type M (1) M.2 2230 type A/E
	VGA Port	1	1
Video output	HDMI Port	1	1
	COM Port	optional	optional
I/O Port	USB2.0	4	4
	USB 3.0	2	2
	Audio	HD 2 channel, 2x 2W internal speaker	HD 2 channel, 2X 2W internal speaker
Ethernet/WiFi		10/100/1000 Mbps Ethernet 802.11 b/g/n WLAN	Intel® 10/100/1000 Mbps Ethernet 802.11 /b/g/n/ac+BT WLAN
Webcam		Yes	Yes
Microphone		Yes	Yes
Dimension(L/W/H) mm		391.3x327x42	391.3x327x42
Weight	NW (kg)	2.92	2.92
	GW (kg)	4.2	4.2
Certification		CB,CE,BSMI,R&TTE,ETL,FCC, RCM,RoHS,VCCI	CB,CE,BSMI,R&TTE,ETL,FCC, RCM,RoHS
Operating Temperature (°C)		0~40	0~40
Adapter		65W external adapter	65W external adapter
Operating System		Windows 10 64bit, Linux	Windows 7 64bit / 8.1 64bit / 10 64bit Linux
Color		Black/White	Black/White
Accessories(Optional)		PCL71 / POS01	PCL71 / POS01



## High-performance Mini-PC Expanded Storage & High-end Graphics Card

### XPC cube series & XH110G



Shuttle's industry renowned XPC cube series is only 1/3 size of a traditional tower PC and populated with a variety of Intel® CPUs but delivers the same performance with high durability and strong expandability. The latest R8 series can accommodate up to four 3.5" HDDs and is able to support Intel® Rapid Storage Technology (Intel® RST), providing a variety of RAID mode selection. Not only XPC cube provides a robust I/O interface and support dual-slot VGA card but new XH110G can also support single PCI-Ex16 slot for various add-on cards such as graphics card (multi-display), capture card, multi-network card, drawing graphics card, or more. Featuring excellent cooling technology, and impressive performance, makes this series very suitable for to be a workstation or surveillance and video wall commercial applications.

- Integrated Cooling Engine 2 (I.C.E. 2) Heat pipe Technology
- Supports multiple PCIe card applications
- Supports multiple RAID modes (except for SH110R4 and XH110G)
- Install up to four 3.5" HDDs (R8 series only)
- Supports large graphics cards (R8 series only)
- 80 Plus Silver Certified Power Supply (R8 series only)



Model	SZ270R8	SZ170R8 V2	SH110R4
CPU	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® Z270	Intel® Z170	Intel® H110
Video Engine Processor	Intel® HD Graphics integrated in CPU (Dynamic video memory)	Intel® HD Graphics integrated in CPU (Dynamic video memory)	Intel® HD Graphics integrated in CPU (Dynamic video memory)
Memory	4 X DDR4 2133/2400 MHz, Max. 64GB	4 X DDR4 2133 MHz, Max. 64GB	2 X DDR4 2133 MHz, Max. 32GB
Storage	SATA 6G	SATA 6G	SATA6G
Storage Bay	4 x 3.5" HDD	4 x 3.5" HDD	2x3.5" HDD/ 1x5.25" ODD bay
Audio	HD 5.1 channel	HD 7.1 channel	HD 5.1 channel
Ethernet	Intel® 10/100/1000 Mbps (RJ45 X2)	Intel® 10/100/1000 Mbps (RJ45 X2)	Intel® 10/100/1000 Mbps (RJ45 X1)
Expansion Slot	PCI Express Slots	(1) PCIe X16, (1) PCIe X4	(1) PCIe X16, (1) PCIe X1
	Mini-PCIe/ M.2	(2) M.2 2280 Type M (1) M.2 2230 Type A/E	(1) M.2 Type M (2280) (1) M.2 Type A/E (2230)
Video output	VGA Port	-	1
	HDMI Port	1	1
	DisplayPort	2	1
I/O Port	USB 2.0	4	4
	USB3.0	6	8
	eSATA	-	-
	PS/2	-	1
	Headphone/Mic in	1/1	1/1
Power Supply	500W 80 Plus Silver	500W 80 Plus Silver	300W 80 Plus Bronze
Dimension (L/W/H) mm	332x216x198	332x216x198	325x215x198
Weight	NW (kg)	3.5	3.5
	GW (kg)	5	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
Operating Temperature (°C)	0-40	0-40	0-40
Chassis	Aluminum	Aluminum	Aluminum
Operating System	Windows 7 64bit (Skylake) / 10 64bit, Linux	Windows 7 64bit (Skylake) / 8.1 64bit (Skylake) / 10 64bit, Linux	Windows 7 64bit (Skylake) / 8.1 64bit (Skylake) / 10 64bit, Linux
Accessories(Optional)	WLN-M, PHD3	WLN-M, PHD3, J-RS232	WLN-M, PHD3, J-RS232

# Accessory

Model	XH110G	
CPU	Intel® Kabylake/Skylake LGA1151 socket Core i3/i5/i7, Pentium, Celeron 65W processor	
Chipset	Intel® H110	
Video Engine Processor	Intel® HD Graphics series engine integrated in CPU (Dynamic Video Memory)	
Memory	2 X DDR4 2133/2400 MHz, . Max. 32GB	
Storage Interface	SATA6G	
Storage Bay	1 X 2.5" HDD or SSD	
Ethernet/ WiFi	Intel®10/100/1000 Mbps Ethernet M.2 WiFi module (optional)	
Expansion Slot	M.2/PCI-E	(1) M.2 Type M (2280) (1) M.2 Type A/E (2230) (1) PCI-E X16
	VGA Port	1
Video Output	HDMI Port	1
	DisplayPort	-
I/O Port	USB 2.0	6
	USB 3.0	2
	eSATA Port	-
	PS/2 Port	-
	Line in/Line out/Mic in	-/1/1
Adapter	180W external adapter	
Dimension (L/W/H) mm	250 x 200 x 78	
Weight	NW (kg)	1.73
	GW (kg)	3.37
Certification	CB,CE,BSMI,ETL,FCC,RCM,VCCI,RoHS	
Operating Temperature (°C)	0-50	
Chassis	Metal	
Operating System	Windows 7 64bit (Skylake) / 10 64bit, Linux	
Accessories(Optional)	WLN-M,PS01	



## XPC Accessory



**PHD3**  
XPC-cube series  
3.5" to 2.5" HDD rack for XPC cube series

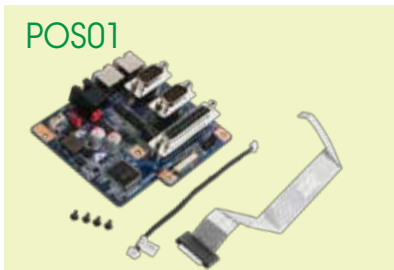


**J-RS232**  
XPC-cube series  
RS232 daughter board for XPC cube series

## AIO Accessory



**PCL71**  
X50V4 / X50V5 / X50V6  
COM/LPT daughter board for X50 series



**POS01**  
X50V4 / X50V5 / X50V6  
COM/LPT/Cash drawer daughter board for X50 series

## WLAN Kit



**WLN-P**  
XPC-cube and slim series  
802.11ac/b/g/n WLAN + BT kit



**WLN-M**  
XPC-cube and slim series  
802.11ac/b/g/n WLAN + BT kit

## Slim Accessory



**PV01**  
XS35 series  
VESA mount accessory for all XS35 series models



**PV02**  
XH270/XH170V/XH110 series  
VESA mount accessory for 3-liter Slim PCs



**PV03**  
XS36 series  
VESA mount accessory for XS36 series



**PVG01**  
DH270/DH170/DQ170/DH110/XH110V/DX30  
VGA port accessory for DH series, DQ170, DX30



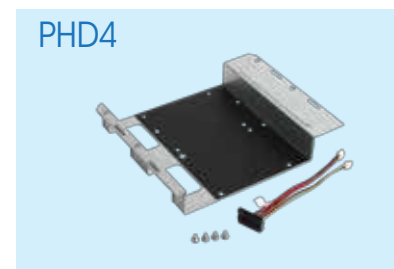
**PS01**  
XH270/XH170V/XH110 series  
Vertical stand accessory for 3-liter Slim PCs



**PS02**  
DH series/DQ170/DX30/DL10J  
Vertical stand accessory for 1-liter Slim PCs



**PHD2**  
XS35 series  
Accessory for XS35 series to support a second hard disk drive



**PHD4**  
XH170V/XH110V  
3.5" hard drive rack for 3-liter Slim PCs



# A Turnkey Solution for Face Recognition

## BR06 series

Face recognition is more popular today than ever before. Shuttle has dedicated to developing face recognition solution for many years. Shuttle has introduced new biometric solution-BR06 series, providing more fast recognition speed, larger user database, and low power consumption. This solution will provide server mode or stand-alone mode as well as with beacon solution to meet different customers' demands. The intelligent facial feature identification capability provided by it consists of a non-invasive and non-contact biometric technology. The all-in-one BR06 system is a 7" single touch screen with fanless design. This system provides the facial, RFID, and fingerprint (optional) multi-recognition to offer double or even triple authentication, designed for gym, small and medium business, banks, education institutions, and communities for access control, security and VIP membership management applications.

- Fanless design
- Rapid and precise recognition capacity: FAR ≤ 0.01%, FRR ≤ 1%
- Easy communication via RS232, RS485, Wiegand, Relay out and digital in
- Built-in IR camera and IR LEDs
- Multi-Recognition: (1) Face recognition  
 (2) Face recognition+ fingerprint  
 (3) RFID+ Face recognition  
 (4) RFID+ Face recognition+ fingerprint

### BR06 Spec

Model	BR06	BR06V2	BR06S	BR06SV2	
Mode	Server mode	Server mode	Stand-alone mode	Stand-alone mode	
CPU	iT9866 SoC	iT9866 SoC	Rockchip RK3368 Octa-core 1.5GHz	Rockchip RK3368 Octa-core 1.5GHz	
Memory	Embedded DRAM 64MB	Embedded DRAM 64MB	2GB memory onboard	1GB memory onboard	
Storage	SPI NOR FLASH 64 MB	SPI NOR FLASH 64 MB	32G eMMC onboard	32G eMMC onboard	
Panel	7", 16:9, LED, 1024x600, Signal Touch	7", 16:9, LED, 1024x600, Signal Touch	7", 16:9, LED, 1024x600, Signal Touch	7", 16:9, LED, 1024x600, Signal Touch	
Audio	1x 2W Internal mono Speaker, 1x Internal Electret Condenser Microphone	1x 2W Internal mono Speaker, 1x Internal Electret Condenser Microphone	1x 2W Internal mono Speaker, 1x Internal Electret Condenser Microphone	1x 2W Internal mono Speaker, 1x Internal Electret Condenser Microphone	
Webcam	1x HD camera (Preview) 1x HD IR camera (Detection) with 2x IR LEDs	1x HD camera (Preview) 1x HD IR camera (Detection) with 2x IR LEDs	1x HD camera (Preview) 1x HD IR camera (Detection) with 2x IR LEDs	1x HD camera (Preview) 1x HD IR camera (Detection) with 2x IR LEDs	
Network	10/100 Mbps Ethernet(1x RJ45)	10/100 Mbps Ethernet(1x RJ45)	10/100/1000 Mbps Ethernet (1x RJ45)	10/100/1000 Mbps Ethernet (1x RJ45)	
I/O	USB2.0	1x USB2.0	1x USB2.0	1x USB2.0	
	1x 18pin GPIO Phoenix contact	1x RS-232(3pin)	1x RS-232(3pin)	1x RS-232(3pin)	1x RS-232(3pin)
		1x RS-485(2pin)	1x RS-485(2pin)	1x RS-485(2pin)	1x RS-485(2pin)
		1x Wiegand in(2pin)	1x Wiegand in(2pin)	1x Wiegand in(2pin)	1x Wiegand in(2pin)
		1x Wiegand out(2pin)	1x Wiegand out(2pin)	1x Wiegand out(2pin)	1x Wiegand out(2pin)
	1x 2pin DC Phoenix contact	2x Relay out (6pin)	2x Relay out (6pin)	2x Relay out (6pin)	2x Relay out (6pin)
	2x Digital In(3pin)	2x Digital In(3pin)	2x Digital In(3pin)	2x Digital In(3pin)	
	12V power (2pin)	12V power (2pin)	12V power (2pin)	12V power (2pin)	
Adapter	12V	12V	12V	12V	
WALL Mount	Yes	Yes	Yes	Yes	
VESA Mount	Yes	Yes	Yes	Yes	
Dimension L x W x H (mm)	230 x 210 x 43	230 x 210 x 43	230 x 210 x 43	230 x 210 x 43	
Weight	NW (kg)	0.7KG	0.7KG	TBD	
	GW (kg)	1KG	1KG	TBD	
Certification	CE, FCC, BSMI, ETL	CE, FCC, BSMI, ETL	CE, FCC, BSMI, ETL	CE, FCC, BSMI, ETL	
Chassis	Plastic	Plastic	Plastic	Plastic	
Operating system	RTOS	RTOS	Android 6.0	Android 6.0	
Face recognition	Recognition speed	2-3 second	2-3 second	2-3 second	
	Recognize rate	FAR 0.0001%, FRR 1%	FAR 0.0001%, FRR 1%	FAR 0.0001%, FRR 1%	
	Face Angle	Two axis ± 15degree	Two axis ± 15degree	Two axis ± 15degree	Two axis ± 15degree
	Standards	ISO/IEC19794-5:2005	ISO/IEC19794-5:2005	ISO/IEC19794-5:2005	ISO/IEC19794-5:2005
RFID reader support	Support NFC contactless card (Mifare)	Support contactless card (Beacon solution)	Support NFC contactless card (Mifare)	Support contactless card (Beacon solution)	
Fingerprint recognition	Fingerprint verification and identification	Fingerprint verification and identification	Fingerprint verification and identification	Fingerprint verification and identification	
Multi-Recognition	ID+Face / Face+Fingerprint / RFID+Face / RFID+Face+Fingerprint	Beacon+Face / Beacon+Fingerprint / Beacon+Fingerprint+Face	RFID+Face / RFID+Face+Fingerprint / RFID+Fingerprint+Face	Beacon+Face / Beacon+Face+Fingerprint / Beacon+Fingerprint+Face	
Access control	Dry contact output. Normal open	Dry contact output. Normal open	Dry contact output. Normal open	Dry contact output. Normal open	
Accessories(Optional)	PV06 (WALL Mount kit)	PV06 (WALL Mount kit)	PV06 (WALL Mount kit)	PV06 (WALL Mount kit)	

# Case Studies & Solutions

## Find the business solutions you're looking for with Shuttle

Shuttle's mini PC, Slim PC, and All-in-One hardware solutions are designed for diverse commercial applications, including Digital Signage, Kiosks, Menu Boards, Video Walls, and POS systems. Whether your business is retail, hospitality, banking, corporate office, transportation, healthcare, security, or education, Shuttle has the right solution to help your business succeed.



### Digital Signage

#### Location: US International Airport

XPC Slim series is a successful digital signage solution. Provide critical information 24/7 to travelers in the most dynamic international gateway in US JFK airport. The XPC Slim uses industrial components to meet the environmental operation demands of commercial applications.

### Thin Client

#### Location: Korea Multimedia library

Install 20pcs slim PCs in multimedia library. Compact, powerful XPC slim is easily integrated into commercial applications with limited space. Its slim rugged design allows for VESA mountable, highly connectable and 24/7 stable operation over long periods.

### Video Wall

#### Location: Russia Cosmetics Retail Store

Stunning 2x2 video wall via XPC Cube to display the latest 4K video. XPC cube supports to install high-end graphics cards to power video walls with crystal clear video content.



### Point-of-sale

#### Location: Lebanon Famous Chain Restaurants

Our partner used XPC AIO PCs as ordering POS system in MADO restaurant of Lebanon, especially the AIO PC with resistive touch panel and IP54 design is workable in kitchen.



### VR solution

#### Location: Singapore University Computing Club

XPC cube series is only 1/3 the size of traditional tower desktop PC but it can provide the same performance as regular desktop with high durability. Choose for XPC cube strong expandability, small form factor with Oculus Rift to let its Club members experience VR game.



### Facial recognition solution for membership check-in

#### Location: Taiwan Elderly Day Care Center

BR06 is a turnkey Face Recognition Solution. The Elderly Day Care Center uses Shuttle's BR06 facial recognition system for daily membership check-in. The members need any ID card or sign for daily check-in.

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