

# Product Overview



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# Shuttle Product Overview

	Processor Socket			Soldered Processor		
	XPC cube 14L	XPC slim 3L/5L	XPC slim 1L	XPC slim/nano	XPC All-in-One	Industry PCs
<b>Intel</b>	<p><b>Max. 4 hard disks (3.5"):</b> SH570R8 SW580R8</p> <p><b>With ODD bay:</b> SH610R4 <b>New</b> SH510R4 SH570R6 SH570R6 Plus</p>	<p><b>3L with ODD bay:</b> Open front and up to five COM ports <b>XH610</b></p> <p>With front doors <b>XH310RV</b> <b>XH610V</b></p> <p><b>3L with 1x PCIe slot</b> <b>XH510G</b></p> <p><b>5L with 2x PCIe slot</b> <b>XH510G2</b></p>	<p><b>Dual Display:</b> <b>DH610S</b></p> <p><b>Triple Display:</b> <b>DH610</b></p> <p><b>Quad Display:</b> <b>DH670V2 New</b></p>	<p><b>Nano PC:</b> <b>NC10U Series</b> – nano <b>NC40U Series</b> – nano <b>New</b></p> <p><b>Slim PC Core fanless</b> <b>DS20UV2-Serie</b> <b>DS50U-Serie New</b></p> <p><b>Slim PC Entry fanless</b> <b>DL20N(6)V2</b> <b>DL30N New</b></p> <p><b>Quad Display (slim):</b> <b>DH02U</b> –NVideo GTX1050 <b>DH32U Series</b></p>	<p><b>Resistive Touch Panel:</b> <b>X50V8</b> - 15.6"</p> <p><b>Capacitive Multi-Touch:</b> <b>P25N</b> – 11.6" <b>New</b> <b>P52U</b> – 15.6" <b>P92U</b> – 19.5"</p> <p>All models with passive cooling (fanless)</p>	<p><b>Box PC:</b> <b>BPCWL02</b> (0 - 40°C) <b>BPCWL03</b> (-20 - 60°C)</p> <p><b>Panel PC:</b> <b>P15WL01</b> – 15.6" <b>New</b> <b>P21WL01</b> – 21.5" <b>M21WL01</b> – 21.5" (Medical)</p> <p>All models with passive cooling (fanless)</p>
<b>ARM</b>				<p><b>Nano PC with Android:</b> <b>NS02AV2</b> – Standard <b>NS02EV2</b> – with PoE</p>	<p><b>Bar-type DS Player</b> <b>D230</b> – 23.1" fanless</p>	

# Shuttle XPC cube

Configurable Barebone PCs in cube format for standard PC components

## XPC cube Chassis Designs

### R4



**Customisable front design**  
Simply change the mylar and add a personal design such as a photo, graphics or a logo to the front panel.



LWH: 32.9 x 21.5 x 19.0 cm (13.4 L)

### R6



**Stylish drive doors**  
The drives and front panel connectors are elegantly hidden for superior style and visual appeal.



LWH: 33.2 x 21.5 x 19.0 cm (13.6 L)

### R8



**The storage wonder**  
Supports up to four 3.5" hard disks in RAID mode plus M.2-SSD cards.



LWH: 33.2 x 21.5 x 19.0 cm (13.6 L)

### All R-chassis













**Spacious**  
The case has enough room for a dual-slot PCIe graphics card. The built-in 500 W power supply is ample to run current high-end graphics cards such as the Nvidia GeForce RTX 2080.

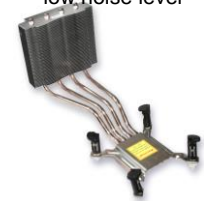
The **Power Supply Calculator** helps you determine which Shuttle power supply is right for your configuration:  
[global.shuttle.com/support/power](https://global.shuttle.com/support/power)

# Shuttle XPC cube



Configurable Barebone PCs in cube format for standard PC components



Intel Core Gen 12-14 "Alder/Raptor Lake" Win 10/11 & Linux	Intel Core Gen 10 / Gen 11 "Comet Lake" and "Rocket Lake" Supports Windows 10/11 and Linux			
SH610R4	SW580R8	SH570R8	SH570R6 SH570R6 Plus	SH510R4
Customisable front design	Supports ECC, vPro, Xeon,...	Supports four 3.5" hard disks	With drive doors 300 or 500 W PSU	Customisable front design
 	 	 	 	 
Intel H610 Chipset Socket LGA1700	Intel W580 Chipset Socket LGA1200 Supp. Xeon serie W	Intel H570 Chipset Socket LGA1200	Intel H570 Chipset Socket LGA1200	Intel H510 Chipset Socket LGA1200
max. 2x 32 GB DDR4-3200 DIMM	max. 4x 32 GB DDR4-3200 DIMM Supports ECC	max. 4x 32 GB DDR4-3200 DIMM	max. 4x 32 GB DDR4-3200 DIMM	max. 2x 32 GB DDR4-3200 DIMM
PCIe X16 v5.0 PCIe X1 v3.0	PCIe X16 v4.0 PCIe X4 v3.0	PCIe X16 v4.0 PCIe X4 v3.0	PCIe X16 v4.0 PCIe X4 v3.0	PCIe X16 v4.0 PCIe X1 v3.0
1x Baie 5,25" 2x Baie 3,5" 1x Slot M.2-2280	4x 3.5" bay 2x M.2-2280 slot RAID support	4x 3.5" bay 1x M.2-2280 slot RAID support	1x 5.25" bay 2x 3.5" bay 1x M.2-2280 slot RAID support	1x 5.25" bay 2x 3.5" bay 1x M.2-2280 slot
1x HDMI 2.0b 2x DP 1.4 1x VGA (Triple Display)	1x HDMI 2.0b 2x DP 1.4 (Triple Display)	1x HDMI 2.0b 2x DP 1.4 (Triple Display)	1x HDMI 2.0b 2x DP 1.4 (Triple Display)	1x HDMI 2.0b 1x DP 1.4, 1x VGA (Dual Display)
4x USB 3.2 Gen 2 4x USB 3.2 Gen 1	4x USB 3.2 Gen 2 4x USB 3.2 Gen 1 4x USB 2.0	4x USB 3.2 Gen 2 4x USB 3.2 Gen 1 4x USB 2.0	4x USB 3.2 Gen 2 4x USB 3.2 Gen 1 4x USB 2.0	4x USB 3.2 Gen 1 4x USB 2.0
1x Intel 1G LAN	2x Intel 1G LAN 2x RTL 2.5G LAN	2x Intel 1G LAN	2x Intel 1G LAN	1x Intel 1G LAN
300 W PSU	500 W PSU	500 W PSU	300/500 W PSU	300 W PSU

Shuttle I.C.E. Heatpipe Cooling System provides efficient cooling at a low noise level



## Optional Accessories:

COM port 	Dual 2.5" bay 
H-RS232 for all models	PHD3 for all models

WLAN kit 	Button cable 
WLN-M1 for all models	CXP01 for SH5xx Series

850 W power 	Graphic Cards at least a 500 W power supply is required. Further info: <a href="http://global.shuttle.co.uk">global.shuttle.co.uk</a>
PC850	



# Shuttle XPC slim – 3/5-litre

Supports Intel Core processors, TDP max. 65W supports Win10/11, Linux

Socket LGA1700 Gen. 12-14 "Alder/Raptor Lake"	Socket LGA1200 Gen. 10 / 11 "Comet/Rocket Lake"	Socket LGA1151v2 Gen. 8 / 9 "Coffee Lake"	
<b>XH610 / XH610V</b>	<b>XH510G2</b>	<b>XH510G</b>	<b>XH310R / XH310RV</b>
Dual LAN, Dual COM Without/with drive doors	PCI-Express X16 (Dual Slot) VESA mount included	PCI-Express X16 (Single Slot) VESA mount included	Dual LAN, Dual COM Without/with drive doors
Intel H610 chipset max. 2x 32 GB DDR4-3200 SO-DIMM	Intel H510 chipset max. 2x 32 GB DDR4-3200 SO-DIMM	Intel H510 chipset max. 2x 32 GB DDR4-3200 SO-DIMM	Intel H310 chipset max. 2x 32 GB DDR4-2666 SO-DIMM
Slimline ODD bay 2x 2.5" bay M.2-2280 slot	<b>Two PCIe Slots: X16 + X1</b> 1x 2.5" bay <b>2x M.2-2280 slot</b>	<b>One PCIe Slot: X16</b> 1x 2.5" bay <b>2x M.2-2280 slot</b>	Slimline ODD bay 2x 2.5" bay M.2-2280 slot
HDMI 2.0b DisplayPort 1.4a, D-Sub/VGA	<b>HDMI 2.0a</b> <b>DisplayPort 1.4</b>	<b>HDMI 2.0a</b> <b>DisplayPort 1.4</b>	<b>HDMI 2.0a</b> DisplayPort 1.2, D-Sub/VGA
4x USB 3.2 Gen 1 (1x Type-C) 4x USB 2.0 2x LAN (Intel <b>1G + 2.5G</b> ) 2x COM-Port	4x USB 3.2 Gen 1 4x USB 2.0 1x LAN (Intel) <b>optional: 1x COM or VGA</b>	4x USB 3.2 Gen 1 4x USB 2.0 1x LAN (Intel) <b>optional: 1x COM or VGA</b>	4x USB 3.2 Gen 1 4x USB 2.0 2x LAN (Intel) 2x COM-Port
120 W power supply	180 W power supply	180 W power supply	90 W power supply

## Heatpipe Cooling



## More Power for XH510G2

By default, XH510G2 supports graphics cards with max. 75 Watts TDP. However, the PC can be optionally upgraded with a second 180W power adapter "PE180" in combination with the riser card "PRC01" – then even graphics cards with up to 225 Watts are supported.



## Optional Accessories:

	Stand	VESA mount	COM port	VGA port	3.5" kit	WLAN kit	Button cable	Triple COM	ODD bay cover	Power Upgrade
Description										
Order No.	<b>PS01</b>	<b>PV02</b>	<b>PCP11</b>	<b>PVG01</b>	<b>PHD4</b>	<b>WLN-M1</b>	<b>CXP01</b>	<b>PCM31</b>	<b>MY01</b>	<b>PRC01+PE180</b>
Compatibility	XH310(R)(V) XH610(V)	XH310(R)(V) XH610(V)	XH510G XH510G2	XH510G XH510G2	XH310(R)(V) XH610(V)	All above models	All above models	XH310(R) XH610	XH310V/RV XH610V	XH510G2

# Shuttle XPC slim – 1-litre with fan

<b>Intel Core Gen 12-14</b> "Alder/Raptor Lake-S", Socket LGA1700, max. 65W TDP Windows 10/11 and Linux		
<b>DH670V2</b> <small>New</small> Quad Display (2x HDMI/2x DP)	<b>DH610</b> Mainstream Version Triple Display	<b>DH610S</b> Entry level Dual Display
Intel H670 Chipset	Intel H610 Chipset	Intel H610 Chipset
max. 2x 32 GB	max. 2x 32 GB	max. 2x 32 GB
DDR4-3200 SO-DIMM	DDR4-3200 SO-DIMM	DDR4-3200 SO-DIMM
1x 2.5" bay	1x 2.5" bay	1x 2.5" bay
M.2-2280 slot	M.2-2280 slot	M.2-2280 slot
2x HDMI 2.0b	1x HDMI 2.0b	1x HDMI 2.0b
2x DisplayPort 1.4	2x DisplayPort 1.4	1x DisplayPort 1.4
4x USB 3.2 Gen 2	4x USB 3.2 Gen 1	4x USB 3.2 Gen 1
4x USB 3.0 (1x Type-C)	4x USB 2.0	(1x Type-C)
2x LAN 2.5G (Intel)	2x LAN 1G+2.5G (Intel)	4x USB 2.0
2x COM-Port	2x COM-Port	1x LAN 1G (Intel)
VESA mount	VESA mount	optional only (PV04)
120W power adapter	120W power adapter	120W power adapter

Common features: Approved for 24/7 permanent operation, Supports processors up to 65W TDP, Connector for external power button, Dimensions (LWH): 19 x 16.5 x 4.3 cm = 1.35 L, Operating temperature: max. 50°C, Heatpipe Cooling System

### Optional Accessories:

	VGA port	Stand	VESA mount	Button cable	WLAN kit	DIN-Rail Kit	Rack mount kit	LTE kit
Description								
Order No.	<b>PVG01</b>	<b>PS02</b>	<b>PV04</b>	<b>CXP01</b>	<b>WLN-M1</b>	<b>DIR01</b>	<b>PRM01</b>	<b>WWN03</b>
Compatible with	all above models	all above models	DH410S,DH610S	all above models	all above models	all above models	all above models	all above models

# Shuttle XPC slim – 1-litre fanless

Intel Core ULV		Intel Entry Level	
DS20UV2 Series the DS10U-Successor	DS50U Series <b>New</b> the DS20UV2-Successor	DL20N(6)V2 Series the DL10L-Successor	DL30N <b>New</b> the DL20N-Successor
<b>Comet Lake-U (Gen 10)</b> DS20UV2: Celeron 5205U DS20U3V2: Core i3-10110U DS20U5V2: Core i5-10210U DS20U7V2: Core i7-10510U	<b>Alder/Raptor Lake-U (Gen 12/13)</b> DS50U: Celeron 7305 DS50U3: Core i3-1315U DS50U5: Core i5-1335U DS50U7: Core i7-1355U	<b>Intel "Jasper Lake"</b> DL20NV2: Celeron (2-core) DL20N6V2: Pentium Silver N6005 (4-core)	<b>Intel "Alder Lake-N"</b> DL30N: N100 (4-core)
max. 2x 32 GB DDR4-2666/2400 SO-DIMM 1x 2.5" bay M.2-2280 slot SD card reader	max. 2x 32 GB DDR5-4800/5200 SO-DIMM 1x 2.5" bay 2x M.2-2280 slot	max. 2x 8 or 1x 16 GB DDR4-2933 SO-DIMM 1x 2.5" bay M.2-2280 slot SD card reader	max. 1x 16 GB DDR5-4800, SO-DIMM 1x 2.5" bay M.2-2280 slot
HDMI 2.0a DisplayPort 1.2 D-Sub / VGA	HDMI 2.0b DisplayPort 1.4 D-Sub / VGA	HDMI 2.0b DisplayPort 1.4a D-Sub/ VGA	HDMI 2.0b DisplayPort 1.4a D-Sub/ VGA
4x USB 3.2 Gen 2 *) 4x USB 2.0 2x LAN (Intel 1G+2.5G) 1x COM-Port	2x USB 3.2 Gen 2 4x USB 3.2 Gen 1 2x USB 2.0 2x LAN (Intel 1G+2.5G) 1x COM-Port	2x USB 3.2 Gen 2 2x USB 3.2 Gen 1 2x USB 2.0 1x LAN (Intel 2.5G) 2x COM-Port	8x USB 3.2 Gen 1 2x LAN (Intel 2.5G) 2x COM-Port
Prepared for WLAN **)	Prepared for WLAN **)	—	—
65 W power adapter AC plug: 3 pins	90 W power adapter AC plug: 3 pins	40 W power adapter AC plug: 2 pins	65 W power adapter AC plug: 3 pins
Dimensions (LWH): 20 x 16.5 x 3.95 cm = 1.3 L	Dimensions (LWH): 20 x 16.5 x 3.95 cm = 1.3 L	Dimensions (LWH): 19 x 16.5 x 4.3 cm = 1.35 L	Dimensions (LWH): 19 x 16.5 x 4.3 cm = 1.35 L



Fanless, quiet and virtually maintenance-free  
Approved for 24/7 permanent operation

## Optional Accessories:

Stand	Button cable	WLAN kit
<b>PS02</b>	<b>CXP01</b>	<b>WLN-M1</b>
for DL20N, DL30N	for all models	for all models

4G Kit w/o 4G module	4G/5G Kit w/o 4G/5G module
<b>WWN03</b>	<b>WWN04</b>
for DS20U/DLxx	for DS50U

COM Port	Rack mount kit	DIN-Rail Kit
<b>PCP11</b>	<b>PRM01</b>	<b>DIR01</b>
for DS20U/DS50U	for all models	for all models

DS20U / DS50U:  
Heatpipe cooling  
without fan



DL20N / DL30N:  
Passive cooling (fanless)



\*) DS20U with Celeron CPU supports USB 3.2 Gen 1 only  
\*\*) DS20U/DS50U series: two WLAN cables pre-installed (no WLAN card, no antennas)

# Shuttle XPC slim – 1-litre with 4x HDMI

Supports playback of **2160p/60 video** on **four Ultra-HD/4K displays** via **HDMI 2.0b**.  
 A fan cooling ensures stable operating at an **ambient temperature of up to 50 °C**.  
 Optional connector for **external power button** (accessory CXP01).  
**VESA Mount** included.

Intel Core ULV CPU	
DH32U Series	DH02U Series
Quad UHD Display with integrated graphics engine	Quad UHD Display with NVIDIA graphics card
<b>Tiger Lake-U (11. Gen.)</b> DH32U: Intel Pentium 7505 (15W) DH32U5: Intel Core i5-1135G7 (28W)	<b>Kaby Lake-U (7. Gen.)</b> DH02U: Intel Celeron 3865U DH02U5: Intel Core i5-7200U
Supports Win 10/11 & Linux	Supports Windows 10 & Linux
<b>Intel UHD Graphics (Tiger Lake)</b> Supports four UHD displays DH32U5: Intel „Iris Xe“ graphics	<b>NVIDIA GeForce GTX 1050</b> Mobile MXM 3.0 graphics card VRAM: 4 GB GDDR5 128-bit Supports four UHD displays
max. 2x 32 GB DDR4-3200 SO-DIMM	max. 2x 16 GB DDR4-2133 SO-DIMM
1x 2.5" bay M.2-2280 slot	1x 2.5" bay M.2-2280 slot
<b>4x HDMI 2.0b</b> 4x USB 3.2 Gen 2 (10G) 4x USB 3.2 Gen 1 (5G) 2x LAN (Intel) 2x COM-Port SD card reader	<b>4x HDMI 2.0b</b> 4x USB 3.0, 2x USB 3.2 Gen 1 (5G) 1x LAN (Intel) 1x COM port
90 W power adapter	120 W power adapter
19 x 16.5 x 4.3 cm = 1.35 L	19 x 16.5 x 4.3 cm = 1.35 L



Supports Quad UHD Display with 4x HDMI 2.0b

### Optional Accessories:

WLAN kit	Stand	Button cable	Rack mount kit
<b>WLN-M1</b>	<b>PS02</b>	<b>CXP01</b>	<b>PRM01</b>
DIN-Rail Kit	VGA Port	LTE adapter w/o LTE module	
<b>DIR01</b>	<b>PVG01</b> for DH32Ux	<b>WWN03</b> for DH32Ux	



# Shuttle XPC nano – 0.8-litre with fan

NC10U Series	NC40U Series <span style="background-color: #ffffcc;">New</span>
<p><b>Whiskey Lake-U (8. Gen.)</b>  <b>NC10U:</b> Intel Celeron 4205U *)  <b>NC10U3:</b> Intel Core i3-8145U  <b>NC10U5:</b> Intel Core i5-8265U  <b>NC10U7:</b> Intel Core i7-8565U</p>	<p><b>Alder Lake-U (12. Gen.)</b>  <b>NC40U:</b> Intel Celeron 7305  <b>NC40U3:</b> Intel Core i3-1215U  <b>NC40U5:</b> Intel Core i5-1235U  <b>NC40U7:</b> Intel Core i7-1255U</p>
Supports Windows 10/11 and Linux	Supports Windows 10/11 and Linux
max. 2x 32 GB DDR4-2133/2400 SO-DIMM *)	max. 2x 32 GB DDR4-2400 SO-DIMM
1x 2.5" bay (up to 15 mm) M.2-2280 slot SD card reader	1x 2.5" bay (up to 15 mm) <b>2x M.2-2280 slot supports RAID</b>
HDMI 2.0a DisplayPort 1.2	<b>HDMI 2.0b</b> <b>DisplayPort 1.4a</b> <b>USB-C supports DP 1.4a</b>
2x USB 3.2 Gen 1 (1x type C) 2x USB 2.0 1x Gigabit LAN (Intel i211) 1x COM port	<b>2x USB 3.2 Gen 2</b> <b>5x USB 3.2 Gen 1 (1x Typ-C)</b> 1x Gigabit LAN (Intel i219)
WLAN, internal antenna **)	— (antennas pre-installed)
65 W power adapter	65 W power adapter
Dimensions (LWH): 14.2 x 14.2 x 4.2 cm = 847 ml	Dimensions (LWH): 14.2 x 14.2 x 4.2 cm = 847 ml
Max. ambient temperature: 40 °C	Max. ambient temperature: 40 °C



Approved for 24/7 permanent operation

**Operating Positions:**

1. Horizontal
2. Vertical with stand (COM port cannot be used)
3. VESA-mounted behind a monitor

Stand and VESA mount with screws are included.



**Supports large-capacity 2.5" drives, e.g. 5 TB**  
(at 15 mm height)

\*) Note: The NC10U with Celeron processor supports DDR4-2133, only!

\*\*\*) WLAN can be upgraded optionally with WLN-M/M1 (AC standard with two external antennas)

# Shuttle XPC nano – 0.6-litre fanless

## Ideal for use as a Digital Signage Media Player

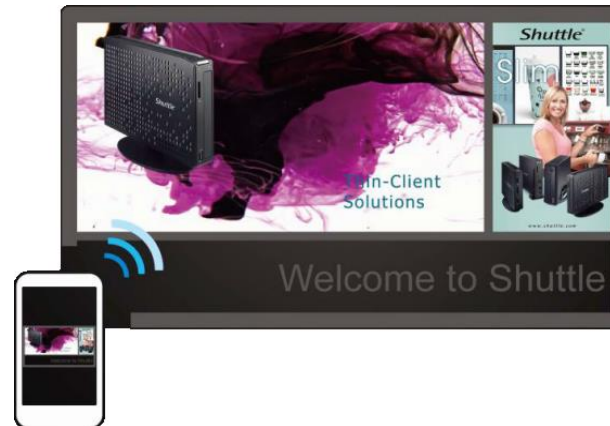
- ✓ Rockchip ARM processor
- ✓ Android 8.1 operating system
- ✓ Shuttle Digital Signage Software
- ✓ Power-over-Ethernet (NS02EV2 only)



NS02A <u>V</u> 2	NS02E <u>V</u> 2
Power supply via 24 W power adapter	Power supply via Power-over-Ethernet (PoE)
Processor: Rockchip RK3368 Octa Core ARM Cortex-A53, 64-Bit SoC, max. 1.5 GHz	
Operating system: Android 8.1 (Lollipop)	
Graphics engine: PowerVR SGX6110 up to 600 MHz Supports H.265 video playback at 4K@60fps	
2 GB RAM onboard 16 GB eMMC onboard	
Power Button, Power LED, HDD LED Connectors: HDMI 2.0, 4x USB 2.0, RJ45 Gigabit LAN, Audio line-out 3.5 mm 2-pin Port: for External Power Button 2-pin-Port: Flash & Recovery Mode Setting	
Wireless LAN 802.11ac and Bluetooth 5.0	
Operating temperature: 0 ~ 40 °C Dimensions: 141 x 141 x 29 mm = 0.6-litre VESA mount (supports 75x75 and 100x100 mm)	



Fanless, quiet and virtually maintenance-free  
Approved for 24/7 permanent operation



### Shuttle Software included:

**Shuttle DS Player**  
Installed on NS02A/E V2

**Shuttle DS Creator**  
for your Android-, iOS- and Windows handset

# Shuttle XPC aio – fanless All-in-One PCs

P25N <b>New</b>	X50V8 Series	P52U Series	P92U Series
11.6" / 1366 x 768 capacitive multi-touch	15.6" / 1366 x 768 resistive single-touch	15.6" / 1920 x 1080 capacitive multi-touch	19.5" / 1600 x 900 capacitive multi-touch
Black	Black & White	Black	Black & White
<b>Alder Lake-N (Gen. 12)</b> P25N: Intel Processor N100	<b>Comet Lake-U (Gen. 10)</b> X50V8: Intel Celeron 5205U X50V8U3: Core i3-10110U	<b>Comet Lake-U (Gen. 10)</b> P52U: Intel Celeron 5205U P52U3: Core i3-10110U	<b>Comet Lake-U (Gen. 10)</b> P92U: Intel Celeron 5205U P92U3: Core i3-10110U P92U5: Core i5-10210U
max. 1x 16GB DDR5 SO-DIMM 2.5" bay supports SATA HDD M.2-2280 slot for M.2 SSDs	max. 2x 32GB DDR4 SO-DIMM 2.5" bay supports SATA HDD M.2-2280 slot for M.2 SSDs	max. 2x 32GB DDR4 SO-DIMM 2.5" bay supports SATA HDD M.2-2280 slot for M.2 SSDs	max. 2x 32GB DDR4 SO-DIMM 2.5" bay supports SATA HDD M.2-2280 slot for M.2 SSDs
HDMI 2.0b, VGA 2x USB 3.2 Gen 2 (10G) 4x USB 3.2 Gen 1 (5G) LAN (2.5G), 2x Audio 2x COM	HDMI 1.4b, VGA 4x USB 3.2 Gen 1 (5G) 2x USB 2.0, SD Cardreader LAN (1G), 2x Audio optional: 2x or 4x COM, LPT	HDMI 1.4b, VGA 4x USB 3.2 Gen 1 (5G) 2x USB 2.0, SD Cardreader LAN (1G), 2x Audio 2x COM (optional 4x COM)	HDMI 1.4b, VGA 4x USB 3.2 Gen 1 (5G) 2x USB 2.0, SD Cardreader LAN (1G), 2x Audio optional: 2x or 4x COM, LPT
—	Internal USB 2.0 Type A	Internal USB 2.0 Type A	Internal USB 2.0 Type A
WLAN-ac, BT 4.2	WLAN-ac, BT 4.2	WLAN-ac, BT 4.2	WLAN-ac, BT 4.2



Touch Display



24/7 permanent operation



Fanless cooling system



IP54 Front panel protected



Supports VESA mounting



COM ports



Always Power-on Jumper



Intel LAN chip



Windows 10/11 and Linux

**Common features:**

- Supports Windows 10/11 & Linux (64-bit)
- 2.5" bay supports one SSD or hard disk drive (max. 9.5 mm height)
- M.2-2280 slot supports SSD card with SATA or PCIe
- Webcam, Speaker, Microphone
- 65 W / 19V power adapter  
DC-input supports 12V±5% or 19V±5%

**Optional Accessories:**

	COM port (1 pcs. / 2 pcs.)	2x COM, LPT	4x COM, LPT, DIO	COM cable (D-Sub/RJ45)	WLAN kit	VESA Stand
Description						
Order No.	PCP11 / PCP21	PCL71	POS01	POR01	WLN-M1	POV21
Compatible with	P25U	X50V8 and P92U series	X50V8 and P92U series	POS01	all above models	all above models

# Shuttle XPC aio – Biometric Signage Solution



	D230 Standalone	D230 Server
	Access by App via WLAN	Access by Browser via Internet
Name of the mobile App	"D230 Mobile"	"D230 Tool"
Create Content	Mobile App supports Android v7.0+ / iOS v11.0+	Access via Web Browser interface
Store content on D230 SD card	Yes (≥Class 10 speed)	Ja (≥Class 10 speed)
Set "Identification Conditions" for each division	Only 1 set	1-+3 sets
Age for "Identification Conditions"	Young, Adult, Elderly	Every decade
Text Marquee	Landscape layout	Landscape layout (Portrait layout for Japanese and Chinese only)
Resume playback after error	—	Yes
Group Devices	—	Yes
Data Analysis (bar graph/pie chart)	—	Yes
D230 OTA image update	Yes (via USB drive)	Yes
Content management system for audience analysis	—	Yes (Linux Server required)

**Integrated Webcam and pre-installed Player Software detect gender and age of viewers to play dedicated advertisement.**

**Common features:**

- Robust housing with VESA support
- Front panel IP54 protected
- Dimensions: 603 x 75 x 29 mm (LWH)
- Operating position: horizontal or vertical
- Passive cooling (fanless)
- Display: 1920 x 158 pixels (12:2 ratio / 23.1")
- Contrast: 3000:1, Brightness: 400 nits
- ARM processor: Rockchip RK3399
- Android operating system v7.1
- RAM: 2 GB LPDDR4, Flash: 16 GB eMMC
- Network: LAN/PoE, WLAN, BT, optional LTE
- Other ports: USB 2.0, Line-Out
- Micro SD Card Reader, Webcam, Speaker
- External power adapter (24 W)
- Operating temperature: 0~40 °C



# Shuttle Industrial PanelPCs

Display	21.5" (54.6 cm)		15.6" (39.6 cm) <b>New</b>	
Model	P21WL01 Blue	M21WL01 White	P15WL01 Blue	P15WL01 White
Application	Industry (24/7)	Medical (27/7)	Industry (24/7)	Industry (24/7)
Color front	Black	White	Black	White
Color rear	Darkblue	White	Darkblue	White
Chassis coating	—	Anti-Septic	—	Anti-Septic
CPU Options	Core i3-8145UE Core i5-8265U Core i5-8365UE (vPro) Core i7-8665UE (vPro)	Core i5-8365UE (vPro)	Core i5-8365UE (vPro)	Core i5-8365UE (vPro)
I/O Ports	HDMI 1.4, DVI-I 4x USB 3.2 Gen 1 2x Intel Gigabit LAN 3x COM, 2x Audio		HDMI 1.4, VGA 4x USB 3.2 Gen 1, 4x USB 2.0 2x Intel Gigabit LAN 1x COM, 2x Audio	
POAG Port *)	No (optional only)	Yes	No (optional only)	No (optional only)
Power Adapter	90W (IEC 62368)	90W (IEC 60601)	90W (IEC 62368)	90W (IEC 62368)
DC-Input	Supports 19V (9-36V optional)		Supports 9-36V	
Memory/Storage	2x SO-DIMM (max. 2x 32 GB DDR4) 1x M.2-2280 Slot for SSD (NVMe or SATA) 1x 2.5" Bay for SATA-SSD		2x SO-DIMM (max. 2x 32 GB DDR4) 1x M.2-2280 Slot for SSD (NVMe or SATA)	
WLAN	WLAN-ac / BT4.2, 2x internal antenna		WLAN-ac / BT4.2, 2x external antenna	
Operating Temperature	0 – 40 °C		0 – 40 °C	
Dimensions	543 x 334 x 49.9 mm (WHD)		394,3 x 256,2 x 48.9 mm (WHD)	
Front View				
Rear View				



- ✓ Fanless, quiet and virtually maintenance-free
- ✓ Approved for 24/7 permanent operation
- ✓ Durable and rugged chassis with Backpanel Cover (Rear cover thickness: 3 mm)
- ✓ IP65 protection (front only)
- ✓ Capacitive 10-point multi-touch
- ✓ Display resolution: 1920 x 1080 FHD
- ✓ 100x100 mm VESA mountable (without mount/stand)
- ✓ Supports Windows 10/11 (64-bit) und Linux (64-bit)
- ✓ M21WL01 is a medical PanelPC with anti-septic coating, POAG pin and medical power adapter (IEC 60601-1)
- ✓ White version with anti-septic coating based on an inorganic zinc compound (front panel) and epoxy/polyester resin (rear chassis)
- ✓ Hardware TPM 2.0 Chip, FullHD 1080p Webcam, 2x 2W speakers

Optional VESA Stand  
POV21



POAG: Potential Equalization Pin according to DIN 42801 - the POAG cable is included (3 m)

# Shuttle Industrial BoxPCs

	Industrial BoxPC	
	BPCWL02	BPCWL03
Operation Temperature	0 – +40 °C	-20 – +60 °C
Power Adapter	90 W	150 W
Chassis Color	Cover: Blue Front/Rear: Black	
Chassis Material	Rugged Aluminum Chassis	
24/7	Approved for 24/7 permanent operation	
IP Standard	IP30	
OS Support	Supports Windows 10/11 and Linux (64-bit only)	
Intel ULV Processor Fanless Cooling	Core i3-8145UE or Core i5-8365UE (vPro) or Core i7-8665UE (vPro)	
Intel AMT/vPro Support	for Core i5 only	
Storage Support	M.2-2280 slot for SSD cards	
RAM Support	max. 2x 32 GB DDR4 SO-DIMM memory	
I/O Ports (Back Panel)	HDMI 1.4b, 4x USB 3.2 Gen 1 Type A (max. 5 Gbps) 2x Intel Gigabit LAN (RJ45, i211/i219LM) 1x COM (RS232), 2x Audio Ports (Microphone / Headphones)	
Optional I/O Ports (Front Panel)	HDMI 2.0 (DHD01), HDMI 1.4 (DHD11) DisplayPort 1.2 (DDP01) DVI-I (DDV01) D-Sub/VGA (DVG01) RS232 (CRS01), 2x RS232/422/485 (CSD01) 4x USB 2.0 (USB01) 4x 2.5G LAN Ports (DHD01) LTE-Adapter/Antennas (LTE01) - without M.2 card Digital Input/Output 4+4 (DIO11) Input for car ignition signal for delayed power on/off (DHD01) Screw connector for external Power-Button (PWR01)	
Optional WLAN	1) Wi-Fi 5 (Realtek WLAN-ac and BT 4.2) 2) Wi-Fi 6 (Intel WLAN-ax and BT 5.2)	
Optional Mounting Options	1) 75x75 mm VESA mountable (VESA mount not included) 2) Ear Mount Brackets on both sides (MRS01) 3) Mounting with 35mm DIN Rail Bracket (MDR01)	
DC-Input Voltage Range	Default: 19V DC-Input can optionally be extended to support 9-36 V	
Dimensions / Weight	16.9 x 24.5 x 5.7 cm (LWH) = ca. 2.7 L, Net weight: 2.85 kg	



- ✓ Fanless, quiet and virtually maintenance-free
- ✓ Approved for 24/7 permanent operation
- ✓ Durable and rugged chassis
- ✓ Several optional expansion kits
- ✓ EN 50155:2017 (13.4.4~13.4.7) and MIL-STD-810G:2008 (514.6/516.6 proc I)



Front View (Configuration example)  
Dummy brackets can be exchanged for optional I/O ports



Rear View (Back Panel)

## Shuttle XPC Systems – fixed configurations

Product-group	Product name	Colour	Based on Barebone-	Operating System	Intel Processors	Graphics	Disk Drives	Memory	Serial Ports	VGA
XPC aio	POS P250	Black	P25U	–	Intel N100	Intel UHD	120 GB SSD	8 GB	2	1
	P2500PA	Black	P25U	Win 10 IOT 64-Bit [1]t	Intel N100	Intel UHD	120 GB SSD	8 GB	2	1
	POS P520	Black	P52U	–	Intel Celeron 5205U	Intel UHD610	120 GB SSD	4 GB	2	1
	P5200PA	Black	P52U	Win 10 IOT 64-Bit [1]t	Intel Celeron 5205U	Intel UHD610	120 GB SSD	4 GB	2	1
	X 5080PA	Black	X50V8	Win 10 IOT 64-Bit [1]t	Intel Celeron 4205U	Intel HD610	120 Go SSD	4 Go	2	1
	POS X580	White/Black	X50V8	–	Intel Celeron 4205U	Intel HD610	120 Go SSD	4 Go	2	1
	X 5070XA	White	X50V7	–	Intel Celeron 4205U	Intel HD610	500 GB HDD	4 GB	–	1
	POS X507	White	X50V7	–	Intel Celeron 4205U	Intel HD610	120 GB SSD	4 GB	2	1
	POS P510	Black	P51U	–	Intel Celeron 4205U	Intel HD610	120 GB SSD	4 GB	2	1
	P5100PA	Black	P51U	Win 10 IOT 64-Bit [1]t	Intel Celeron 4205U	Intel HD610	120 GB SSD	4 GB	2	1
	POS P920	Black	P92U	–	Intel Celeron 5205U	Intel UHD610	128 Go SSD	4 GB	2	1
	P9200XA	Black	P92U	–	Intel Celeron 5205U	Intel UHD610	500 Go SSD	8 GB	–	–
	P9200PA	Black	P92U	Win 10 IoT Enterprise	Intel Celeron 5205U	Intel UHD610	250 Go SSD	8 GB	–	–
XPC slim (fanless)	POS DS200	Black	DS20U	–	Intel Celeron 5205U	Intel UHD610	128 GB SSD	4 GB	1	1
	DL2000XA	Black	DL20N	–	Intel Celeron N4505	Intel UHD Gen11	120 GB SSD	4 GB	2	1
	DL2000EP	Black	DL20N	Win 11 Pro [1]	Intel Celeron N4505	Intel UHD Gen11	120 GB SSD	4 GB	2	1
XPC nano	NC 1010XA	Black	NC10U	–	Intel Celeron 4205U	Intel HD610	128 GB SSD	4 GB	1	–
	NC 1010BA	Black	NC10U	Win 10 Pro Entry [1]	Intel Celeron 4205U	Intel HD610	64 GB SSD	4 GB	1	–
Box-PC	BPCWL02-i3XA	Blue	BPCWL02	–	Intel Core i3-8145UE	Intel UHD620	120 GB SSD	4 GB	3	1
	BPCWL02-i5WA	Blue	BPCWL02	Win 10 IoT Enterpr [1]	Intel Core i5-8365UE	Intel UHD620	250 GB SSD	8 GB	3	1
Panel-PC	P21WL01-i3XA	Black/Blue	P21WL01-i3	–	Intel Core i3-8145UE	Intel UHD620	120 GB SSD	4 GB	3	–
	P21WL01-i5WA	Black/Blue	P21WL01-i5	Win 10 IoT Enterpr [1]	Intel Core i5-8365UE	Intel UHD620	250 GB SSD	8 GB	3	–
	M21WL01-i5WA	White	M21WL01-i5	Win 10 IoT Enterpr [1]	Intel Core i5-8365UE	Intel UHD620	500 GB SSD	16 GB	3	–

[1] Free 24-month **Pick-Up-and-Return service (PUR)** for Shuttle complete systems with Windows operating system (except UK).

Operating system pre-installed with German, English, French, Italian, Dutch (additional languages can be installed at any time).

The above systems have a fixed configuration. Please use the **Shuttle Systems Configurator** at [www.shuttle.eu/systems](http://www.shuttle.eu/systems) to compile individual configurations.

## All Shuttle XPC Systems – Overview

Category	Basis of the Systems		BTO Systems (sys.eu.shuttle.com)			Fixed Configuration	
	Barebone	Processor (Socket)	Windows	Linux Ubuntu	without OS	Windows	without OS
XPC cube	SH610R4	Socket LGA 1700	R46100B		SH610XA		
	SH570R8	Socket LGA 1200	R85700P		SH570XB		
	SH570R6 (Plus)	Socket LGA 1200	R65700H		SH570XA		
	SH510R4	Socket LGA 1200	R45100B		SH510XA		
	SH370R6V2 (Plus)	Socket LGA 1151v2	R63700H		SH370XA		
XPC slim (3-litre)	XH610(V)	Socket LGA 1700	X6100B		XH610XA		
	XH510G	Socket LGA 1200	X5100B		XH510GXA		
	XH510G2	Socket LGA 1200	X5120B		XH510G2XA		
XPC slim (1-litre)	DH610S	Socket LGA 1700	D6110B		DH610SXA		
	DH610	Socket LGA 1700	D6100B		DH610XA		
	DH670	Socket LGA 1700	D6710B		DH670XA		
	DH32U	Intel Pentium / Core i5	DH3200B		DH32UXA		
	DH02U	Intel Celeron 3865U	DH0200B		DH02UXA		
XPC slim (1L, fanless)	DS20U(x)	Intel ULV Gen. 10	DS2000B		DS20UXA		POS DS200
	DL20N(V2)	Intel Celeron N4505	DL2000B		DL20NXA	DL2000EP	DL2000XA
XPC nano	NC40U(x)	Intel ULV Gen. 12	NC4010B		NC40UXA	NS4010BA	NC4010XA
XPC aio (fanless)	P25U – 11.6“	Intel N100	P2500T	P2500T	P25UXA	P2500PA	POS P250
	P52U – 15,6“	Intel Celeron 5205U	P5200T		P52UXA		
	P92U(x) – 19.5” Black or White	Intel ULV Gen. 10	P9200T		P92UXA	P9200PA	P9200XA POS920 [2]
	X50V8(Ux) - 15.6“ Black or White	Intel ULV Gen. 10	X5080T	X5080T	X50X8A	X5080PA	POS508 [2]
Box-PC	BPCWL02	Intel ULV Gen. 8	BPCWL02-i3W BPCWL02-i5W		BPCWL02-i3X BPCWL02-i5X	BPCWL02-i5WA	BPCWL02-i3XA
Panel-PC	P21WL01 Black	Intel ULV Gen. 8	P21WL01-i3W P21WL01-i5W		P21WL01-i3X P21WL01-i5X	P21WL01-i5WA	P21WL01-i3XA
	M21WL01 White	Intel ULV Gen. 8	M21WL01-i5W		M21WL01-i5X	M21WL01-i5WA	

[1] 3D Workstation with Nvidia Quadro graphics card [2] with COM ports [3] based on X50V7U3 with Intel Core i3 processor





### Power Supply



Product	Output Wattage	Compatibility
<b>PE90</b> <b>PE120</b>	90 W 120 W	XS35/XS36-series, DX30, DL10J, DL20N, DS61, DS81, DS87, DH110(SE), DH170, DQ170, DH270, DH310(S), DH370, XH61(V), XH81(V), XH97V, XH110(V), XH170, XH310(V), DS47, DS407T, DS437(T), DS57U(x), DS67U(x), DS68U(x), DS77U(x), DS10U(x), DS20U(x), XC60J, NC01Ux, NC02Ux, NC03Ux, X50 series, P20U, P90U, KD20, KD21, KD22, KS10, EN01 series
<b>PC55</b>	450 W	Shuttle XPC cube SB81P, SB95P, SB95PV2, SD31P, SD37P2, SD39P2, SN25P, SN26P, SN27P2
<b>PC45G</b>	250 W (80+)	Shuttle XPC cube chassis D, K, G, G2, G5, G6 and the models ST61G4, but it is <b>NOT</b> compatible with SD11G5, SK83G, SN85G4, SN95G5, ST20G5
<b>PC850</b>	850 W (80+)	SW580R8, SH570R8, SH570R6 (Plus), SH510R4

### I/O Expansion



Product	Type	Connectors	Compatibility
<b>H-RS232</b>	Adapter cable	1x serial	SA76R4, SH67H3/H7, SH61R4, SZ68R5, SZ77R5, SX79R5, SH81R4, SH/SZ87R6, SH97R6, SH110R4, SH170R6, SZ170R8(V2), SZ270R8/R9, SH3xxRx, SH5xxRx, P20U
<b>PCP11</b>	Adapter cable	1x serial	P20U, P22U, P51U, P52U, DS10Ux, DS20Ux, XH410G, XH510G(2)
<b>PCP21</b>	Adapter cable	2x serial	P20U, P22U, P51U, P52U
<b>PCL71</b>	Adapter card	2x serial, 1x parallel	Shuttle XPC aio (All-in-One) X50V4, X50V5, X50V6, X50V7, P90U
<b>POS01</b>	Adapter card	4x ser., 1x par., 1x RJ11	Shuttle XPC aio (All-in-One) X50V4, X50V5, X50V6, X50V7, P90U (RJ11 for cash drawer).
<b>PVG01</b>	VGA output	D-Sub 15-pin	DX30, DS81, DS87, DH110, DH170, DQ170, DH270, DH310, DH370, XH81(V), XH110(V)
<b>PCM3(1)</b>	Triple COM port	3x serial	PCM3 for XH81, PCM31 for XH310(R)/XH610
<b>PD01/PSE01</b>	PoE card	RJ45	EN01 series

### VESA Kit & Stand



Product	Type	Material	Compatibility
<b>PV02</b>	VESA kit	Metal	XG41, XH61(V), XH81(V), XH97V, XH110(V), XH170V, XH270, XH310(V), XH610(V), XC60J
<b>PV04</b>	VESA kit	Metal	Shuttle XPC slim DH110SE, DH310S, DH410S, DH610S
<b>PS01</b>	Vertical stand	Plastic	XG41, XH61(V), XH81(V), XH97V, XH110(V), XH170V, XH270, XH310(R)(V), XH610(V), XC60J
<b>PS02</b>	Vertical stand	Metal	DX30, DL10J, DL20N, DS61, DS81(L), DH1xx, DQ170, DH270, DH3xx, DH4xx, DH6xx, DH02Ux
<b>PRM01</b>	Rackmount kit	Metal	DH02Ux, DH110, DH110SE, DH170, DH270, DH3xx, DH4xx, DH6xx, DL10J, DL20N, DQ170, DS407(T), DS437(T), DS47, DS57Ux, DS61, DS67Ux, DS68U, DS77Ux, DS10Ux, DS20Ux, DS81, DS81L, DX30(V2)
<b>DIR01</b>	DIN-Rail kit	Metal	
<b>POV21</b>	Dual VESA stand	Metal	Shuttle AIO PCs: X50V4...X50V9, P20U, P22U, P51U, P52U, P90U, P92U Shuttle Panel-PCs: P21WL/ALxx, P15WL/ALxx

### Other



Product	Type	Compatibility
<b>PHD3</b>	Supports two 2.5" drives instead of the 3.5" bay	Shuttle XPC cube
<b>PHD4</b>	3.5" hard disk rack	Shuttle XPC slim XH81(V), XH97V, XH110(V), XH170V, XH310(R)(V), XH610(V)
<b>LN007</b>	M.2 adapter for WLAN card	EN01 series
<b>WLN-M1</b>	WLAN kit with 2 antennas (M.2-2230 card)	NC02/03Ux, NC10Ux, DH1xx-DH6xx Series, XH1xx-XH6xx Series, XC60J, DX30, DL20N(6), DS20Ux, DH02Ux, DH32Ux SH110R4, SZ170R8V2, SZ270Rx, SH3xxRx, SH5xxRx, EN01Jx
<b>WWN01</b>	4G kit with antennas without 4G module	DL10J, EN01-Series
<b>WWN03</b>	4G kit with antennas without 4G module	DH32U, DH4xx, DH6xx, XH510G(2), XH610(V), DL20N(6), DS10Ux, DS20Ux
<b>WWN04</b>	4G/5G kit with antennas without 4G/5G module	DS50U series, X50V9 series



## Overview: Intel Core Desktop Processors

### 10th Generation "Comet Lake-S" LGA 1200, for PC's with 400/500 series chipset

Name	Model	Cores/Threads	CPU Clock [GHz]	Turbo Clock [GHz]	Cache [MB]	TDP [W]
Core i9	10900K	10 / 20	3,7	5,1	20	125
	10900KF	10 / 20	3,7	5,1	20	125
	10900	10 / 20	2,8	5,0	20	65
	10900F	10 / 20	2,8	5,0	20	65
	10900T	10 / 20	1,9	4,5	20	35
Core i7	10700K	8 / 16	3,8	5,0	16	125
	10700KF	8 / 16	3,8	5,0	16	125
	10700	8 / 16	2,9	4,7	16	65
	10700F	8 / 16	2,9	4,7	16	65
10700T	8 / 16	2,0	4,4	16	35	
Core i5	10600K	6 / 12	4,1	4,8	12	125
	10600KF	6 / 12	4,1	4,8	12	125
	10600	6 / 12	3,3	4,8	12	65
	10600T	6 / 12	2,4	4,0	12	35
	10500	6 / 12	3,1	4,5	12	65
	10500T	6 / 12	2,3	3,8	12	35
	10400	6 / 12	2,9	4,3	12	65
	10400F	6 / 12	2,9	4,3	12	65
10400T	6 / 12	2,0	3,6	12	35	
Core i3	10320	4 / 8	3,8	4,6	8	65
	10300	4 / 8	3,7	4,4	8	65
	10300T	4 / 8	3,0	3,9	8	35
	10100	4 / 8	3,6	4,3	8	65
	10100T	4 / 8	3,0	3,8	8	35
Pentium Gold	G6605	2 / 4	4,3	-	4	58
	G6600	2 / 4	4,2	-	4	58
	G6505	2 / 4	4,2	-	4	58
	G6500	2 / 4	4,1	-	4	58
	G6500T	2 / 4	3,5	-	4	35
	G6405	2 / 4	4,1	-	4	58
	G6405T	2 / 4	3,5	-	4	35
	G6400	2 / 4	4,0	-	4	58
G6400T	2 / 4	3,4	-	4	35	
Celeron	G5925	2 / 2	3,6	-	4	58
	G5920	2 / 2	3,5	-	2	58
	G5905	2 / 2	3,5	-	4	58
	G5905T	2 / 2	3,3	-	4	35
	G5900	2 / 2	3,4	-	2	58
G5900T	2 / 2	3,2	-	2	35	

**Important notes:**

**K** = unlocked – this function is not supported by current XPC products

**F** = without graphics – requires an additional graphics card

**T** = Power optimized – low power consumption

**TDP** = Power consumption > 65W is only supported by XPC cubes

Please refer to the Processor-Support-List at [global.shuttle.com](http://global.shuttle.com).

Shuttle does not give guarantee on completeness and correctness of the above information.

### 11th Generation "Rocket Lake-S" LGA 1200, for PC's with 500 series chipset

Name	Model	Cores/Threads	CPU Clock [GHz]	Turbo Clock [GHz]	Cache [MB]	TDP [W]
Core i9	11900K	8 / 16	3,5	5,3	16	125
	11900KF	8 / 16	3,5	5,3	16	125
	11900	8 / 16	2,5	5,2	16	65
	11900F	8 / 16	2,5	5,2	16	65
	11900T	8 / 16	1,5	4,9	16	35
Core i7	11700K	8 / 16	3,6	5,0	16	125
	11700KF	8 / 16	3,6	5,0	16	125
	11700	8 / 16	2,5	4,9	16	65
	11700F	8 / 16	2,5	4,9	16	65
11700T	8 / 16	1,4	4,6	16	35	
Core i5	11600K	6 / 12	3,9	4,9	12	125
	11600KF	6 / 12	3,9	4,9	12	125
	11600	6 / 12	2,8	4,8	12	65
	11600T	6 / 12	1,7	4,1	12	35
	11500	6 / 12	2,7	4,6	12	65
	11500T	6 / 12	1,5	3,9	12	35
Core i3	11400	6 / 12	2,6	4,4	12	65
	11400F	6 / 12	2,6	4,4	12	65
	11400T	6 / 12	1,3	3,7	12	35

### 12th Generation "Alder Lake-S" LGA 1700, for PC's with 600 series chipset

Name	Model	P-Cores		E-Cores		Smart Cache [MB]	Base TDP [W]
		Cores Threads	Clock/Turbo [GHz]	Cores	Clock/Turbo [GHz]		
Core i9	12900K	8 / 16	3.2-5.1	8	2.4-3.9	30	125
	12900KF	8 / 16	3.2-5.1	8	2.4-3.9	30	125
	12900	8 / 16	2.4-5.0	8	1.8-3.8	30	65
	12900F	8 / 16	2.4-5.0	8	1.8-3.8	30	65
	12900T	8 / 16	1.4-4.8	8	1.0-3.6	30	35
	12700K	8 / 16	3.6-4.9	4	2.7-3.8	25	125
12700KF	8 / 16	3.6-4.9	4	2.7-3.8	25	125	
Core i7	12700	8 / 16	2.1-4.9	4	1.6-3.6	25	65
	12700F	8 / 16	2.1-4.9	4	1.6-3.6	25	65
	12700T	8 / 16	1.4-4.6	4	1.0-3.4	25	35
Core i5	12600K	6 / 12	3.7-4.9	4	2.8-3.6	20	125
	12600KF	6 / 12	3.7-4.9	4	2.8-3.6	20	125
	12600	6 / 12	3.3-4.8	-	-	18	65
	12600T	6 / 12	2.1-4.6	-	-	18	35
	12500	6 / 12	3.0-4.6	-	-	18	65
12500T	6 / 12	2.0-4.4	-	-	18	35	

Core i5	12400	6 / 12	2.5-4.4	-	-	18	65
	12400F	6 / 12	2.5-4.4	-	-	18	65
	12400T	6 / 12	1.8-4.2	-	-	18	35
Core i3	12300	4 / 8	3.5-4.4	-	-	12	60
	12300T	4 / 8	2.3-4.2	-	-	12	35
	12100	4 / 8	3.3-4.3	-	-	12	60
	12100F	4 / 8	3.3-4.3	-	-	12	58
	12100T	4 / 8	2.2-4.1	-	-	12	35
Pentium Gold	67400	2 / 4	3.7	-	-	6	46
	67400T	2 / 4	3.1	-	-	6	35
Celeron	66900	2 / 2	3.4	-	-	4	46
	66900T	2 / 2	2.8	-	-	4	35

### 13th Generation "Raptor Lake-S" LGA 1700, for PC's with 600/700 series chipset

Name	Model	P-Cores		E-Cores		Smart Cache [MB]	Base TDP [W]
		Cores Threads	Clock/Turbo [GHz]	Cores	Clock/Turbo [GHz]		
Core i9	13900KS	8 / 16	3.2-6.0	16	2.4-4.3	36	150
	13900K	8 / 16	3.0-5.8	16	2.0-4.3	36	125
	13900KF	8 / 16	3.0-5.8	16	2.0-4.3	36	125
	13900F	8 / 16	2.0-5.2	16	1.5-4.2	36	65
	13900T	8 / 16	2.0-5.2	16	1.5-4.2	36	65
Core i7	13700K	8 / 16	1.1-5.1	16	0.8-3.9	36	35
	13700KF	8 / 16	3.4-5.4	8	2.5-4.2	30	125
	13700	8 / 16	3.4-5.4	8	2.5-4.2	30	125
	13700F	8 / 16	2.1-5.1	8	1.5-4.1	30	65
13700T	8 / 16	2.1-5.1	8	1.5-4.1	30	65	
Core i5	13600K	8 / 16	1.4-4.8	8	1.0-3.6	30	35
	13600KF	6 / 12	3.5-5.1	8	2.6-3.9	20	125
	13600	6 / 12	3.5-5.1	8	2.6-3.9	20	125
	13600T	6 / 12	2.7-5.0	8	2.0-3.7	24	65
	13500	6 / 12	1.8-4.8	8	1.3-3.4	24	35
	13500T	6 / 12	2.5-4.8	8	1.8-3.5	24	65
	13400	6 / 12	1.6-4.6	8	1.2-3.2	24	35
Core i3	13400F	6 / 12	2.5-4.6	4	1.8-3.3	20	65
	13400T	6 / 12	2.5-4.6	4	1.8-3.3	20	65
	13100	6 / 12	1.3-4.4	4	1.0-3.0	20	35
	13100F	4 / 8	3.4-4.5	-	-	12	60
13100T	4 / 8	3.4-4.5	-	-	12	58	

### 14th Generation "Raptor Lake-S Refresh"

**Note:** Shuttle XPCs of the DH6xx/XH61x/SH610R4 series support Intel Core processors of the 14th generation "Raptor Lake-S Refresh" starting with a certain firmware/BIOS version, which has been available since January 2024. During the transition phase Shuttle XPCs still come with an older firmware/BIOS version and must first be updated with the help of a Gen 12/13 processor "Alder/Raptor Lake-S".

**Overview: Windows 11 Support**

Category	Supports Installation of Windows 11 (64-bit) and Supports Windows 10 upgrade to Windows 11 (64-bit)	Does <u>not</u> support Windows 11
<b>XPC Cube</b>	SH310R4 (V2) SH370R6 (V2) SH370R8 SH510R4, SH570R6 SH570R8, SW580R8 SH610R4	SH110R4 SH170R6 SZ270R8 SZ270R9
<b>XPC slim 3L/5L</b>	XH310(V), XH310R(V), XH610(V) XH410G, XH510G(2)	XH110/XH110V XH110G XH270
<b>XPC slim 1L With Fan</b>	DH310(S)(V2), DH370 DH410(S)(L), DH470(L) DH670(V2), DH610(S) DA320 DH32U	DH110 DH110SE DQ170 DH270 DH02U
<b>XPC slim 1L Fanless</b>	DS10U DS20U(V2) DS50U DL10J DL20N(V2)	DS68U DS77U DX30 XC60J
<b>XPC Nano</b>	NC10U, NC40U	NC02U, NC03U
<b>XPC All-in-One</b>	X50V7(L), X50V8 P51U, P52U P92U P22U, P25N	X50V6 P20U P90U
<b>Edge PC</b>		EN01J3/J4
<b>Box-PC</b>	BPCWL02, BPCWL03	
<b>Panel-PC</b>	P21WL01, M21WL01, P15WL01	



Category	Product Name	Shuttle SKU Code (Order Number)	UPC Code	Selling-Period Shuttle EU	Customs HS Code*	Origin	AC Power Plug Type	Single Box Net/Gr Weight	Pieces Multi Box	Weight Multi Box	Packing see Table	Remark
XPC slim (1-liter)	DH410	PIB-DH410001 PIB-DH410011	887993002385 887993003696	Nov'20-Aug'22 Oct'21-Nov'21	84733080	China	90W (2)	2.4 / 2.8 kg	4	11.0 kg	1L-Slim	with card reader no card reader
	DH410S	PIB-DH410S001 PIB-DH410S011	887993002460 887993003115	Nov'20-Nov'21 Jun'21-Dec'22	84733080	China	90W (2)	2.2 / 2.8 kg	4	11.0 kg	1L-Slim	Audio: ALC662 Audio: ALC897
	DH470	PIB-DH470001	887993002422	Dec'20-Aug'21	84733080	China	90W (2)	2.4 / 2.8 kg	4	11.0 kg	1L-Slim	Audio ALC662
	DH470C (no card reader)	PIB-DH470011 PIB-DH470021 PIB-DH470031	887993003689 887993004938 887993005140	Sep'21-Mar'22 Dec'21-Jun'22 Jun'22-Sep'23	84733080	China	90W (2)	2.4 / 2.8 kg	4	11.0 kg	1L-Slim	Audio ALC662 Audio ALC888S Audio ALC897
	DH610	PIB-DH610001	887993005119	since Aug'22	84733080	China	120W (2)	2.2 / 2.6 kg	4	10.6 kg	1L-Slim	
	DH610S	PIB-DH610S001	887993005126	since Aug'22	84733080	China	120W (2)	2.1 / 2.6 kg	4	10.6 kg	1L-Slim	
	DH670	PIB-DH670001	887993004983	Jul'22-Dec'23	84733080	China	120W (2)	2.2 / 2.7 kg	4	10.9 kg	1L-Slim	2x 1G LAN
	DH670V2	PIB-DH670011	887993005942	from Jul'23	84733080	China	120W (2)	2.2 / 2.7 kg	4	10.9 kg	1L-Slim	2x 2.5G LAN
	DA320	PIB-DA320001	887993002767	from Jan'21	84733080	China	120W (2)	2.4 / 2.8 kg	4	11.0 kg	1L-Slim	
	DH02U	PIB-DH02U001	887993001432	from Jun'18	84733080	China	120W (2)	2.0 / 2.4 kg	4	11.0 kg	1L-Slim	
	DH02U5	PIB-DH025001	887993001456	Jun'18-Jun'20	84733080	China	120W (2)	2.0 / 2.4 kg	4	11.0 kg	1L-Slim	
	DH32U	PIB-DH32U011	887993004440	from Feb'22	84733080	China	90W (2)	1.9 / 2.4 kg	4	11.0 kg	1L-Slim	
	DH32U5	PIB-DH32U511	887993004464	from Feb'22	84733080	China	90W (2)	1.9 / 2.4 kg	4	11.0 kg	1L-Slim	
	DL20N	PEB-DL20N401	887993003641	Nov'21-Jan'23	84733080	China	40W (3)	1.5 / 2.0 kg	4	8.0 kg	1L-Slim	LAN: 1G
	DL20N6	PEB-DL20N601	887993003665	Nov'21-Dec'22	84733080	China	40W (3)	1.5 / 2.0 kg	4	8.0 kg	1L-Slim	LAN: 1G
	DL20NV2	PEB-DL20N411	887993005379	since Jan'23	84733080	China	40W (3)	1.5 / 2.0 kg	4	8.0 kg	1L-Slim	LAN: 2.5G
	DL20N6V2	PEB-DL20N611	887993005393	since Feb'23	84733080	China	40W (3)	1.5 / 2.0 kg	4	8.0 kg	1L-Slim	LAN: 2.5G
	DL30N	PEB-DL30N101	887993006093	since Mar'24	84733080	China	65W (2)	1.3 / 2.1 kg	4	8.5 kg	1L-Slim	
	DS20U	PEB-DS20U001	887993003900	Feb'22-May'23	84733080	China	65W (2)	1.9 / 2.4 kg	4	10.0 kg	1L-Slim	LAN: 2x 1G
	DS20U3	PEB-DS20U301	887993003917	Feb'22-Feb'23	84733080	China	65W (2)	1.9 / 2.4 kg	4	10.0 kg	1L-Slim	LAN: 2x 1G
	DS20U5	PEB-DS20U501	887993003924	Feb'22-Dec'22	84733080	China	65W (2)	1.9 / 2.4 kg	4	10.0 kg	1L-Slim	LAN: 2x 1G
	DS20U7	PEB-DS20U701	887993003931	Feb'22-Mar'23	84733080	China	65W (2)	1.9 / 2.4 kg	4	10.0 kg	1L-Slim	LAN: 2x 1G
	DS20UV2	PEB-DS20U011	887993005331	from May'23	84733080	China	65W (2)	1.9 / 2.4 kg	4	10.0 kg	1L-Slim	LAN: 2.5G + 1G
	DS20U3V2	PEB-DS20U311	887993005348	from Feb'23	84733080	China	65W (2)	1.9 / 2.4 kg	4	10.0 kg	1L-Slim	LAN: 2.5G + 1G
	DS20U5V2	PEB-DS20U511	887993005355	from Nov'22	84733080	China	65W (2)	1.9 / 2.4 kg	4	10.0 kg	1L-Slim	LAN: 2.5G + 1G
	DS20U7V2	PEB-DS20U711	887993005362	from Mar'23	84733080	China	65W (2)	1.9 / 2.4 kg	4	10.0 kg	1L-Slim	LAN: 2.5G + 1G
	DS50U	PEB-DS50U001	887993006574	n.a.	84733080	China	90W (2)	2.2 / 2.5 kg	4	11.0 kg	1L-Slim	
	DS50U3	PEB-DS50U301	887993006192	n.a.	84733080	China	90W (2)	2.2 / 2.5 kg	4	11.0 kg	1L-Slim	
DS50U5	PEB-DS50U501	887993006185	n.a.	84733080	China	90W (2)	2.2 / 2.5 kg	4	11.0 kg	1L-Slim		
DS50U7	PEB-DS50U701	887993006178	from Feb'23	84733080	China	90W (2)	2.2 / 2.5 kg	4	11.0 kg	1L-Slim		





Category	Product Name	Shuttle SKU Code (Order Number)	UPC Code	Selling-Period Shuttle EU	Customs HS Code	Origin	AC Power Plug Type	Net Weight Single Box	Pieces Multi Box	Weight Multi Box	Packing see Table	Remark
XPC slim (3-liter)	XH310R	PIB-XH310R11 PIB-XH310R21	887993001630 887993002644	Mar'19-Jan'21 Jan'21-Nov'22	84733080	China	90W (2)	2.6 / 3.0 kg	4	13.0 kg	3L-Slim	Initial version new: EN62368
	XH310RV	PIB-XH310RV11 PIB-XH310RV21	887993001623 887993002637	Mar'19-Feb'21 from Feb'21	84733080	China	90W (2)	2.6 / 3.0 kg	4	13.0 kg	3L-Slim	Initial version new: EN62368
	XH410G	PIB-XH410G01	887993002507	Nov'20-Aug'22	84733080	China	180W (2)	2.6 / 3.0 kg	4	15.0 kg	3L-Slim	
	XH510G	PIB-XH510G01	887993005041	from Nov'22	84733080	China	180W (2)	2.6 / 3.0 kg	4	15.0 kg	3L-Slim	
	XH510G2	PIB-XH510G201	887993004198	from Jun'22	84733080	China	180W (2)	2.6 / 3.0 kg	4	16.0 kg	3L-Slim	
	XH610	PIB-XH61001	887993005171	from Oct'22	84733080	China	120W (2)	2.6 / 3.0 kg	4	13.0 kg	3L-Slim	
	XH610V	PIB-XH610V01	887993005164	from Oct'22	84733080	China	120W (2)	2.6 / 3.0 kg	4	13.0 kg	3L-Slim	
XPC cube	SH310R4V2	PC-SH310R421 PC-SH310R431	887993001647 887993002675	Oct'19-Aug'21 Oct'21-May'22	84733080	China	300W (1)	4.5 / 5.0 kg	4	22.0 kg	Cube-S	Initial version new: EN62368
	SH510R4	PC-SH510R411 PC-SH510R421	887993003948 887993005409	from Feb'22 TBA	84733080	China	300W (1)	4.6 / 5.0 kg	4	22.0 kg	Cube-L Cube-S	Initial version smaller package
	SH570R6	PC-SH570R611 PC-SH570R631	887993003498 TBA	from Nov'21 TBA	84733080	China	300W (1)	4.7 / 5.1 kg	4	22.0 kg	Cube-L Cube-S	Initial version smaller package
	SH570R6 Plus	PC-SH570R621	887993003870	from Nov'21	84733080	China	500W (1)	4.7 / 5.1 kg	4	22.0 kg	Cube-L	
	SH570R8	PC-SH570R811 PC-SH570R821	887993003504 TBA	from Nov'21 TBA	84733080	China	500W (1)	4.7 / 5.1 kg	4	22.0 kg	Cube-L Cube-S	Initial version smaller package
	SW580R8	PC-SH580R821	887993005447	from Jul'22	84733080	China	500W (1)	4.7 / 5.1 kg	4	22.0 kg	Cube-S	
	SH610R4	PC-SH610R411	887993005911	from Jul'23	84733080	China	300W (1)	4.6 / 5.0 kg	4	22.0 kg	Cube-S	
XPC nano	NC10U	PFB-NC10U001 PFB-NC10U011 PFB-NC10U021	887993001975 887993002972 887993005454	Jan'20-Apr'22 Jun'22-Mar'23 Feb'23-Dec'23	84733080	China	65W (3)	1.0 / 1.3 kg	4	7.0 kg	1L-Slim	Audio chip ALC662 Audio chip ALC897 Audio chip ALC897
	NC10U3	PFB-NC10U301 PFB-NC10U311 PFB-NC10U321	887993001982 887993002989 887993005461	Jan'20-May'22 Jun'22-Jul'23 Mar'23-Nov'23	84733080	China	65W (3)	1.0 / 1.3 kg	4	7.0 kg	1L-Slim	Audio chip ALC662 Audio chip ALC897 Audio chip ALC897
	NC10U5	PFB-NC10U501 PFB-NC10U511 PFB-NC10U521	887993001999 887993002996 887993005478	Jan'20-Jun'22 Jun'22-Jun'23 since Jun'23	84733080	China	65W (3)	1.0 / 1.3 kg	4	7.0 kg	1L-Slim	Audio chip ALC662 Audio chip ALC897 Audio chip ALC897
	NC10U7	PFB-NC10U701 PFB-NC10U711 PFB-NC10U721	887993002002 887993003009 887993005485	Jan'20-Jul'22 since Jun'22 since Nov'23	84733080	China	65W (3)	1.0 / 1.3 kg	4	7.0 kg	1L-Slim	Audio chip ALC662 Audio chip ALC897 Audio chip ALC897
	NC40U	PFB-NC40U	887993005904	from Sep'23	84733080	China	65W (3)	1.0 / 1.3 kg	4	7.0 kg	1L-Slim	Celeron 7305
	NC40U3	PFB-NC40U	887993005898	from Sep'23	84733080	China	65W (3)	1.0 / 1.3 kg	4	7.0 kg	1L-Slim	Core i3-1215U
	NC40U5	PFB-NC40U	887993005881	from Sep'23	84733080	China	65W (3)	1.0 / 1.3 kg	4	7.0 kg	1L-Slim	Core i5-1235U
	NC40U7	PFB-NC40U	887993005874	from Sep'23	84733080	China	65W (3)	1.0 / 1.3 kg	4	7.0 kg	1L-Slim	Core i7-1255U
	NS02A	PFB-NS02A011 PFB-NS02A021	887993600536 887993600536	Apr'17-May'19 May'19-Apr'21	84733080	China	24W (3)	0.5 / 0.8 kg	10	10.0 kg	Nano-NS	Android 5.1.1 Android 8.1
	NS02E	PFB-NS02E011 PFB-NS02E021	887993600543 887993600543	May'17-Dec'19 Sep'19-May'21	84733080	China	24W (3)	0.5 / 0.8 kg	10	10.0 kg	Nano-NS	Android 5.1.1 Android 8.1
	NS02AV2	PFB-NS02A031 PFB-NS02A041	887993601526 887993601595	Aug'21-Jul'22 from Feb'22	84733080	China	24W (3)	0.5 / 0.8 kg	10	10.0 kg	Nano-NS	Initial version No spec change
	NS02EV2	PFB-NS02E041 PFB-NS02E051	887993601540 887993601601	from Sep'21 TBA	84733080	China	24W (3)	0.5 / 0.8 kg	10	10.0 kg	Nano-NS	Initial version No spec change



Category	Product Name	Shuttle SKU Code (Order Number)	UPC Code	Selling-Period Shuttle EU	Customs HS Code	Origin	AC Power Plug Type	Net Weight Single Box	Pieces Multi Box	Weight Multi Box	Packing see Table	Remark
Edge-PC	EN01J3	NEC-EN01J03	887993601106	from Jun'20	84714900	China	NA	0.9 / 1.2 kg	4	6.0 kg	Edge	
	EN01J4	NEC-EN01J04	887993601113	from Jun'20	84714900	China	NA	0.9 / 1.2 kg	4	6.0 kg	Edge	
Panel-PC	P21WL01-i3	ZKPB-P21WL01301	887993003887	from Feb'22	84714100	Taiwan	90W (1)	7.6 / 10.0 kg	2	20.7 kg	Panel-PC	Core i3-8145UE Core i5-8365UE
	P21WL01-i5	ZKPB-P21WL01501	887993003894	from Feb'22								
	M21WL01	ZKPB-M21WL01500	887993005522	from Nov'22	84714100	Taiwan	90W (2)	7.7 / 10.1 kg	2	20.9 kg	Panel-PC	Medical Version
Box-PC	BPCWL02-i3	ZKBB-BPCWL02302	887993003474	Feb'22-Jun'22	84733080	Taiwan	90W (2)	3.4 / 3.9 kg	3	13.6 kg	Box-PC	0 - 40 °C
		ZKBB-BPCWL02303	887993005003	from May'22								
	BPCWL02-i5	ZKBB-BPCWL02502	887993003481	from Feb'22	84733080	Taiwan	90W (2)	3.4 / 3.9 kg	3	13.6 kg	Box-PC	0 - 40 °C
		ZKBB-BPCWL02303	887993005010	TBA								
BPCWL02-i7	ZKBB-BPCWL02703	887993005607	from Apr'23	84733080	Taiwan	90W (2)	3.4 / 3.9 kg	3	13.6 kg	Box-PC	0 - 40 °C	
	BPCWL03-i3	N.A.	887993004716	from Feb'22	84733080	Taiwan	150W (-)	3.7 / 4.2 kg	3	14.5 kg	Box-PC	-20 - 60 °C
	BPCWL03-i5		887993004723	from Feb'22								



Category	Product Name	Shuttle SKU Code (Order Number)	UPC Code	Selling-Period Shuttle EU	Customs HS Code*	Origin	AC Power Plug Type	Single Box Net/Gr Weight	Pieces Multi Box	Weight Multi Box	Packing see Table	Remark
XPC all-in-one	<b>P20U Black</b>	PAB-P20U001 PAB-P20U011	887993001487 887993003122	Jun'18-Mar'21 Apr'21-Apr'22	84714100	China	65W (3)	3.5 / 3.8 kg	4	16.0 kg	AIO-S	Initial version EN62368 approved
	<b>P22U Black</b>	PAB-P22U001	887993004648	from Jun'22	84714100	China	65W (2)	3.5 / 3.8 kg	4	16.0 kg	AIO-S	
	<b>X50V7 Black</b>	PAB-X50V712 PAB-X50V732	887993002149 887993004341	Jun'20-Apr'22 Feb'22-Aug'22	84714100	China	65W (3)	4.5 / 5.0 kg	4	19.0 kg	AIO-M	Audio chip ALC269 Audio chip CM6542
	<b>X50V7L Black</b>	PAB-X50V722	887993003559	Aug'21-Mar'22	84714100	China	65W (3)	4.5 / 5.0 kg	4	19.0 kg	AIO-M	L = without WLAN chip
	<b>X50V7 White</b>	PAB-X50V711 PAB-X50V731	887993002156 887993004327	Jun'20-Feb'22 Feb'22-Jun'22	84714100	China	65W (3)	4.5 / 5.0 kg	4	19.0 kg	AIO-M	Audio chip ALC269 Audio chip CM6542
	<b>X50V7U3 Black</b>	PAB-X50V7U312 PAB-X50V7U332	887993002163 887993004389	Jun'20-Jan'22 Mar'22-Jul'22	84714100	China	65W (3)	4.5 / 5.0 kg	4	19.0 kg	AIO-M	Audio chip ALC269 Audio chip CM6542
	<b>X50V7U3L Black</b>	PAB-X50V7U322	887993003566	Sep'21-May'22	84714100	China	65W (3)	4.5 / 5.0 kg	4	19.0 kg	AIO-M	L = without WLAN chip
	<b>X50V7U3 White</b>	PAB-X50V7U311 PAB-X50V7U331	887993002170 887993004365	Jun'20-May'22 from Jun'22	84714100	China	65W (3)	4.5 / 5.0 kg	4	19.0 kg	AIO-M	Audio chip ALC269 Audio chip CM6542
	<b>X50V8 Black</b>	PAB-X50V8	887993005072	from Jun'22	84714100	China	65W (2)	4.5 / 5.0 kg	4	19.0 kg	AIO-M	
	<b>X50V8 White</b>	PAB-X50V8	887993005096	from Jun'22	84714100	China	65W (2)	4.5 / 5.0 kg	4	19.0 kg	AIO-M	
	<b>X50V8U3 Black</b>	PAB-X50V8U3	887993005089	from Jun'22	84714100	China	65W (2)	4.5 / 5.0 kg	4	19.0 kg	AIO-M	
	<b>X50V8U3 White</b>	PAB-X50V8U3	887993005102	from Jun'22	84714100	China	65W (2)	4.5 / 5.0 kg	4	19.0 kg	AIO-M	
	<b>P51U Black</b>	PAB-P51U001 PAB-P51U011	887993001791 887993004587	Sep'19-Jun'22 from Apr'22	84714100	China	65W (3)	3.3 / 4.5 kg	4	19.0 kg	AIO-M	Audio chip ALC269 Audio chip CM6542
	<b>P51U3 Black</b>	PAB-P51U301 PAB-P51U311	887993002187 887993004594	Feb'20-Dec'21 from Apr'22	84714100	China	65W (3)	3.3 / 4.5 kg	4	19.0 kg	AIO-M	Audio chip ALC269 Audio chip CM6542
	<b>P52U Black</b>	PAB-P52U001	887993005768	TBA	84714100	China	65W (2)	3.3 / 4.5 kg	4	19.0 kg	AIO-M	
	<b>P52U3 Black</b>	PAB-P52U301	887993005782	TBA	84714100	China	65W (2)	3.3 / 4.5 kg	4	19.0 kg	AIO-M	
	<b>P90U Black</b>	PAB-P90U001 PAB-P90U011 PAB-P90U011	887993001661 887993002323 887993004969	May'19-Sep'20 Sep'20-Dec'21 from Apr'22	84714100	China	65W (3)	4.9 / 5.7 kg	2	13.0 kg	AIO-L	Initial version EN62368 approved without Driver DVD
	<b>P90U White</b>	PAB-P90U002 PAB-P90U012	887993001890 887993002330	Jan'20-Sep'21 from Oct'21	84714100	China	65W (3)	4.9 / 5.7 kg	2	13.0 kg	AIO-L	Initial version EN62368 approved
	<b>P90U3 Black</b>	PAB-P90U301 PAB-P90U311 PAB-P90U311	887993001685 887993002347 887993004969	Jan'19-Mar'21 from Feb'21 from Apr'22	84714100	China	65W (3)	4.9 / 5.7 kg	2	13.0 kg	AIO-L	Initial version EN62368 approved without Driver DVD
	<b>P90U3 White</b>	PAB-P90U302	887993001906	Jul'19-May'22	84714100	China	65W (3)	4.9 / 5.7 kg	2	13.0 kg	AIO-L	
	<b>P90U5 Black</b>	PAB-P90U501 PAB-P90U511 PAB-P90U511	887993001678 887993002491 887993004976	May'19-May'21 from Mar'21 from Aug'22	84714100	China	65W (3)	4.9 / 5.7 kg	2	13.0 kg	AIO-L	Initial version EN62368 approved without Driver DVD
	<b>P92U Black</b>	PAB-P92U011	887993004488	from Feb'22	84714100	China	65W (2)	4.9 / 5.7 kg	2	13.0 kg	AIO-L	
	<b>P92U White</b>	PAB-P92U012	887993004501	from Feb'22	84714100	China	65W (2)	4.9 / 5.7 kg	2	13.0 kg	AIO-L	
	<b>P92U3 Black</b>	PAB-P92U311	887993004525	from Feb'22	84714100	China	65W (2)	4.9 / 5.7 kg	2	13.0 kg	AIO-L	
	<b>P92U3 White</b>	PAB-P92U312	887993004549	from Feb'22	84714100	China	65W (2)	4.9 / 5.7 kg	2	13.0 kg	AIO-L	
	<b>P92U5 Black</b>	PAB-P92U511	887993004563	from Feb'22	84714100	China	65W (2)	4.9 / 5.7 kg	2	13.0 kg	AIO-L	
	<b>D230</b>	DAD-D23001	887993601168	from Sep'20	84714100	China	24W (3)	1.4 / 2.0 kg	4	8.8 kg	AIO-Stretch	

### Packing Box Dimensions

Retail Box Design	Product Examples	Single Retail Box			Package with multiple Retail Boxes			
		Dimensions approx. in cm	Dimensions in mm	Volume in liters	Pieces per Box	Dimensions approx. in cm	Dimensions in mm	Volume in liters
<b>Cube-S</b>	SH1xx, SH3xx series	46 x 28 x 24	455 x 273 x 232	28.5	4 pcs.	56 x 47 x 50	562 x 466 x 500	131
<b>Cube-L</b>	First shipment of SH5xx	46 x 28 x 32	455 x 273 x 310	28.8	4 pcs.	57 x 47 x 65	565 x 473 x 645	172
<b>3L-Slim</b>	XH310(V), XH410, XH510G2	38 x 28 x 14	375 x 274 x 135	13.9	4 pcs.	57 x 39 x 30	563 x 389 x 298	65.3
<b>1L-Slim</b>	DH4xx, NC10U, DS20U	26 x 25 x 14	255 x 240 x 136	8.32	4 pcs.	52 x 30 x 26	522 x 292 x 262	39.9
<b>Nano-NS</b>	NS02A/E (V2) series	28 x 19 x 5.5	280 x 187 x 53	2.78	10 pcs.	40 x 29 x 30	395 x 290 x 295	33.8
<b>Edge</b>	EN01J3, EN01J4	21 x 22 x 19	206 x 218 x 190	8.53	4 pcs.	46 x 44 x 21	460 x 435 x 210	42.0
<b>AIO-S</b>	P20U, P22U (11.6")	41 x 14 x 39	410 x 137 x 386	21.7	4 pcs.	57 x 43 x 41	568 x 429 x 405	98,7
<b>AIO-M</b>	X50- and P51U-Series (15.6")	46 x 13 x 42	457 x 129 x 420	24.8	4 pcs.	56 x 48 x 46	552 x 479 x 452	119.5
<b>AIO-L</b>	P90U, P92U (19.5")	50 x 16 x 55	494 x 152 x 555	41.7	2 pcs.	58 x 33 x 52	574 x 323 x 511	94.7
<b>AIO-Stretch</b>	D230 (23.1")	67 x 23 x 8.5	667 x 228 x 83	12.6	4 pcs.	69 x 36 x 25	687 x 355 x 245	59.75
<b>Panel-PC</b>	P21WL01 (21.5")	68 x 16.5 x 50	680 x 165 x 500	56.2	2 pcs.	69 x 33 x 52	684 x 329 x 513	115.4
<b>Box-PC</b>	BPCWL02, BPCWL03	32.5 x 15.5 x 31	325 x 153 x 310	15.4	3 pcs.	49 x 34 x 35	485 x 340 x 345	56.9

### Power Plug Type







Category	Product Name	Description	Shuttle SKU Code (Order Number)	Selling-Period	UPC Code 8... EAN Code 4...	Customs HS Code	Single Box		Multi Box		
							Weight Net/Gross	Dimensions in cm	Pieces per box	Weight Gross	Dimensions in cm
Power Supply	PE90	90W power adapter for DS/DH/XH series	POZ-PE90E01	from Jun'14	811686005728	85044030	0.52 / 0.65 kg	20.2 x 14.2 x 5.0	72	45 kg	59.5 x 48.5 x 43
	PE180	180W power adapter for XH510G2	POS-PE180E01	from Apr'22	4046047103768	85044030	0.6 / 0.9 kg	28.5 x 10 x 5.5	NA	NA	NA
	PRC01	Supports 2nd power adapter for XH510G2	POI-PRC01	from May'22	887993800387	85444290	0.1 / 0.17 kg	21.0 x 12.5 x 3.5	50	10 kg	ca. 66 x 39 x 25
	PC45	250W power supply for some G/H series	POC-PC45G01	from July'14	4046047102860	85044030	0.8 / 1.0 kg	28.5 x 10 x 5.5	12	10 kg	ca. 32 x 32 x 31
	PC55	450W power supply for some P/P2 series	PCZ-PC55	from Feb'10	811686005148	85044030	1.2 / 1.38 kg	19.5 x 15.8 x 10.6	10	15 kg	ca. 57 x 42 x 19
	PC61J	300W power supply for H/J/R series	POC-PC61J	Oct'10-Dec'22	811686005438	85044030	1.1 / 1.18 kg	37.0 x 10.7 x 7.8	10	13 kg	ca. 56 x 40 x 18
	PC63J	500W power supply for H/J/R series	POC-PC63J POC-PC63J1	Sep'09-Jul'17 Mar'17-Sep'23	811686005445 887993800073	85044030	1.4 / 1.35 kg	37.0 x 10.7 x 7.8	10	15 kg 16 kg	ca. 56 x 40 x 18 ca. 55 x 38 x 16
	PC850	850W power supply for SH5xx series	POC-PC8501	from Jun'22	4046047103829	85044030	0.8 / 1.55 kg	37.0 x 10.7 x 7.8	12	18 kg	ca 56 x 51 x 19
Wireless	WLN-M	WLAN kit (802.11ac, Realtek RTL8821)	POZ-WLNM01	from Mar'17	887993800035	85177900	0.05 / 0.11 kg	19.0 x 13.0 x 3.5	50	7 kg	68.0 x 40.0 x 20.0
	WLN-M1	WLAN kit (802.11at, Intel AX200)	POZ-WLNM11	from Feb'22	4046047103690	85177900	0.05 / 0.95 kg	19.0 x 13.0 x 3.5	50	7 kg	68.0 x 40.0 x 20.0
	WWN01	LTE adapter kit for DL10J series only	POE-WWN01	from Jul'18	887993800233	84733020	0.06 / 0.08 kg	15.2 x 11.2 x 2.3	80	7.5 kg	ca. 48 x 33 x 28
	WWN03	LTE adapter kit for DS10/20, DH4xx/6xx,...	POE-WWN03	from Nov'19	887993800318	84733020	0.06 / 0.095 kg	15.2 x 11.2 x 2.3	NA	8.5 kg	ca. 48 x 33 x 28
	PNFC01	NFC kit for P20U (not for P22U)	POA-PNFC01	from Jun'18	887993800189	85177900	0.09 / 0.02 kg	12.2 x 9.0 x 1.0	NA	NA	NA
	PNFC03	NFC kit for P51U	POA-PNFC03	from Jun'19	887993800288	85177900	0.09 / 0.025 kg	12.2 x 9.0 x 1.0	20	1 kg	NA
I/O Ports	PCL71	COM/LPT adapt. for X50V4-V8, P90U/P92U	POA-PCL71	from Jan'15	887993800011	84733020	0.07 / 0.12 kg	15.2 x 11.2 x 2.3	80	10 kg	ca. 48 x 33 x 28
	POS01	COM/LPT/RJ11 for X50V4-V8, P90U/P92U	POA-POS01	from Jan'15	887993800004	84733020	0.09 / 0.14 kg	15.2 x 11.2 x 2.3	80	10 kg	ca. 48 x 33 x 28
	POR01	COM adapter cable for POS01 (D-Sub/RJ45)	POA-POR01	from Aug'15	4046047103126	84733020	0.1 / 0.1 kg	16 x 24 (bag)	NA	NA	NA
	H-RS232	COM adapter cable for XPC cubes (H/R)	POC-PC0701	from Sep'11	4046047102358	85444290	0.02 / 0.2 kg	16 x 24 (bag)	NA	NA	NA
	PCP11	COM adapter cable for DS10/20, XH410G...	POZ-PCP11	from Sep'19	4046047103430	85444290	0.02 / 0.02 kg	16 x 24 (bag)	NA	NA	NA
	PCP21	2x COM adapter cables for P2xU, P5xU	POA-PCP21	from Aug'18	4046047103362	85444290	0.04 / 0.04 kg	16 x 24 (bag)	NA	NA	NA
	PCM3	Triple COM port for XH81	POI-PCM3	from Nov'14	811686005834	85444290	0.08 / 0.2 kg	16.8 x 10.6 x 3.6	NA	NA	NA
	PCM31	Triple COM port for XH310(R)	POI-PCM31	from Sep'18	887993800257	85444290	0.08 / 0.125 kg	16.8 x 10.6 x 3.6	72	11 kg	ca. 51 x 44 x 23
PVG01	VGA adapter cable for XPC slim	POI-PVG01	from May'14	811686005735	85444290	0.02 / 0.065 kg	21.1 x 12.7 x 3.5	50	5 kg	65.5 x 38.3 x 25.5	
HDD kits	PHD2	2nd HDD kit for XS35 series	POE-PHD2 POE-PHD2N	from Feb'11 from Feb'12	811686005469 811686005490	84733080	0.04 / 0.065 kg	15.2 x 11.2 x 2.3	80	6 kg	ca. 47 x 32 x 27
	PHD3	3.5" to 2.5" HDD rack for XPC cube	POC-PHD3 POC-PHD31	Jan'12-Jan'16 from Jun'13	811686005544 811686005599	73269098	0.09 / 0.18 kg	18.5 x 13,7 x 3.5	126	23 kg	ca. 57 x 43 x 39
	PHD4	3.5" HDD rack for 3L slim PCs (PHD41 has some additional holes)	POI-PHD4 POI-PHD41	Oct'14-Jun'17 from Jul'17	811686005827	84733080	0.2 / 0.30 kg	19.0 x 20.5 x 4.6	50	12 kg	47.9 x 44.5 x 43.1
VESA Stand DIN-Rail Rack	PV02	VESA mount kit for XH series (not XHxxxG)	POI-PV02	from Jul'11	811686005537	73269098	0.35 / 0.495 kg	27.9 x 16.0 x 16.0	12	8 kg	57.7 x 42.6 x 33.5
	PV04	VESA mount kit for some Slim PCs	POI-PV04 POI-PV041	from Feb'17 from Jun'18	4046047103171 887993800141	73269098	0.35 / 0.4 kg	16 x 24 (bag)	80	14 kg	ca. 47 x 32 x 28
	PS01	Vertical Stand for XH series (not XHxxxG)	POI-PS01	from Jul'11	811686005520	39269097	0.07 / 0.14 kg	23.3 x 13.6 x 6.5	40	8.5 kg	ca. 58 x 50 x 34
	PS02	Vertical Stand for XPC slim (1L)	POI-PS02	from Jan'17	4046047103164 887993800134	76169990	0.07 / 0.10 kg	15.2 x 11.3 x 2.3	80	8.5 kg	ca. 48 x 33 x 28
	DIR01	DIN-Rail adapter for XPC slim	POZ-DIR01	from Sep'19	4046047103447	73269098	0.8 / kg	16 x 24 (bag)	50	9 kg	NA
	PRM01	2U rackmount kit for XPC slim	POZ-PRM01	from May'17	4046047103225	73269098	0.7 / 0.78 kg	49.1 x 9.6 x 2.5	25	20 kg	ca. 52 x 30 x 26
	POV21	Dual VESA Stand	POA-POV21	from Jan'24	4046047104116	73269098	2.6 / 3.2 kg	27.0 x 27.0 x 27.0			
For Edge-PC	PSE01	2nd LAN with PoE (supplies ext. device)	PUN-PSE01	from Nov'20	887993800349	84733020	0.054 / 0.12 kg	16.8 x 10.6 x 3.5	72	9.5 kg	ca. 53 x 45 x 24
	PD01	2nd LAN with PoE (supplies EN01 via LAN)	PUN-PD01	from Nov'20	887993800356	84733020	0.054 / 0.12 kg	16.8 x 10.6 x 3.5	72	9.5 kg	ca. 53 x 45 x 24
	LN007	Adapter board to support a WLAN module	PUN-LN007	from Sep'20	4046047103539	84733020	0.016 / 0.02 kg	7.0 x 11.9	NA	NA	NA
Other	CXP01	Cable for external power button	POZ-CXP01	from Dec'16	4046047103119	85444290	0.05 / 0.06 kg	14.9 x 21.0 (bag)	50	5.5 kg	NA
	MY01	ODD bay cover for 3L X PCs with front door	POI-MY01	from Mar'16	4046047103034	39191080	0.01 / 0.015 kg	16 x 24 (bag)	NA	NA	NA