Shuttle®
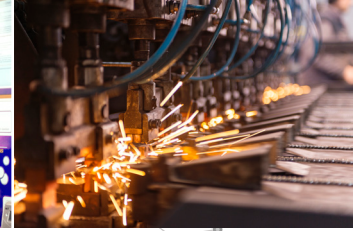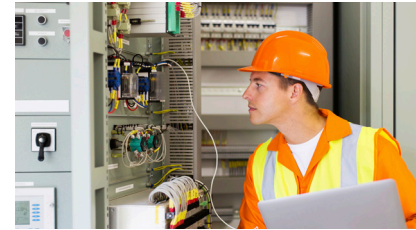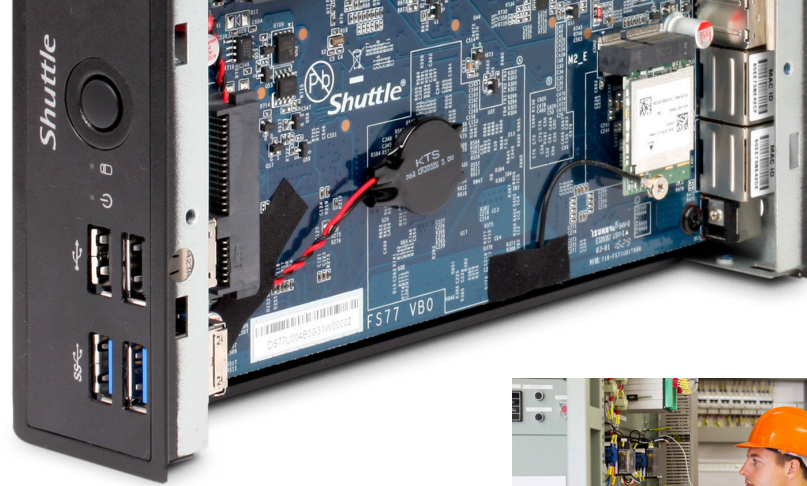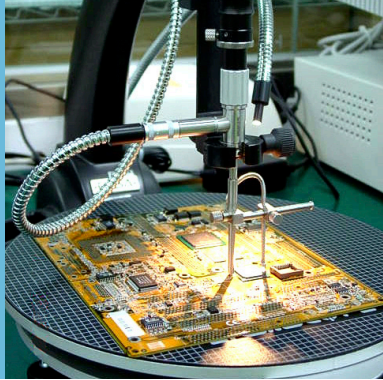
PRODUCTS 2023

WELCOME TO THE WORLD OF SPACE-SAVING MINI PCS

It all began in 1983. We started early and have been a genuinely pioneering force in the industry since 2001. Over the past 22 years, we have launched an array of space-saving and energy-efficient PCs for every area of application. The unique feature of our machines is the use of sophisticated cooling concepts for minimum operating noise. We manufacture reliable Slim PCs, Mini PCs, and All-in-One PCs for the office – and for extremely demanding professional applications.

COMPANY PROFILE

Established in 1983 in Taiwan, we specialise in the development and production of space-saving Mini PCs. The stock market listed company is represented globally through subsidiaries in Germany, the USA, China and Japan. Since 2001 attractive PC solutions in an array of formats designed for virtually every area of application have been the main business focus of Shuttle. We aim to develop individual solutions for the demanding requirements of customers. Technical innovations such as new chipsets, processors and connections are regularly integrated in new models within a short time of product launch. The range of products has recently been expanded to include fanless Slim PCs.

CELEBRATING
40 YEARS
1983 – 2023
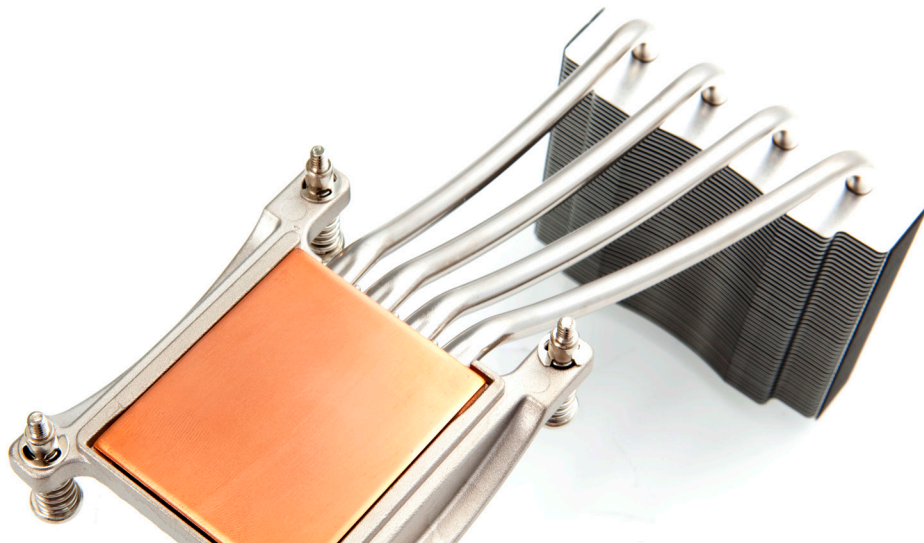
MILESTONES

2022 — Shuttle introduces industrial-grade panel PCs
2021 — Shuttle releases Box-PCs
2020 — First Bar-Type Signage Display from Shuttle
2019 — Shuttle presents solution for edge computing
2018 — Shuttle adds 11.6" model to its All-in-One PC product range
2017 — Shuttle launches its first model with HDMI 2.0
2016 — Shuttle launches its first model with vPro technology
2015 — Shuttle launches its first model with IP54 certification
2014 — For the first time Shuttle offers ARM-based PCs
2013 — Shuttle celebrates its 30th anniversary since its establishment
2012 — Launch of particularly robust and fanless industrial PCs
2012 — Introduction of OMNINAS (NAS solutions)
2012 — Shuttle adds 18.5" model to its All-in-One PC product range
2011 — Shuttle launches the world's fastest Mini PC
2010 — Shuttle launches its first 1-litre PC (fanless)
2009 — Shuttle starts to use new production facilities in China
2009 — Shuttle starts development and production of OEM notebooks
2009 — Shuttle launches its first All-in-One PC (fanless)
2008 — Shuttle launches Mini PC with integrated touchscreen
2006 — Shuttle launches its first 3-litre PC

2005 — Shuttle opens branch office in China
2005 — Shuttle launches its first Media-Center XPC
2005 — First Mini PC in the world with two graphics cards in SLI mode
2005 — Tom's Hardware awards Shuttle 'Best SFF PC Maker'
2004 — Shuttle introduces XPC complete system solutions
2004 — Shuttle establishes Japan branch office
2004 — Over one million XPCs shipped
2002 — Shuttle introduces the patented 'I.C.E.' heatpipe cooling system
2001 — Shuttle launches first Shuttle XPC Mini PC
2000 — ISO-14001 certification
2000 — Shuttle Inc. becomes a publicly listed company (TAIEX: 2405)
1999 — ISO-9001 certification
1998 — Shuttle develops the world's first 17×17cm motherboard for OEM market
1997 — Shuttle establishes 3,500 m² production facilities in Taoyuan, Taiwan
1995 — Shuttle recognised as the world's 5th largest mainboard maker
1995 — ISO 9002 and TÜV certification
1990 — Shuttle Computer Handels GmbH established in Germany
1988 — Shuttle Computer Group USA established
1984 — Shuttle begins manufacturing motherboards in Taoyuan, Taiwan
1983 — Shuttle Inc., Taiwan established (formerly Holco)

SOLUTIONS FOR ANY KIND OF APPLICATIONS

Our space-saving Mini PCs are real multi-purpose machines. This is just a small selection of possible scenarios that Shuttle holds a solution for.

POS

The purchase of a POS system often represents a considerable capital investment. However, with Shuttle's energy-saving All-in-One PCs in your desired configuration, you save money. Thanks to the tilting pedestal and standard installation mount, these machines can be installed almost anywhere. And our new IP54-compliant models are now even more robust. Maximum flexibility in terms of choice of hardware and software enables the creation of a POS solution that exactly meets your requirements.
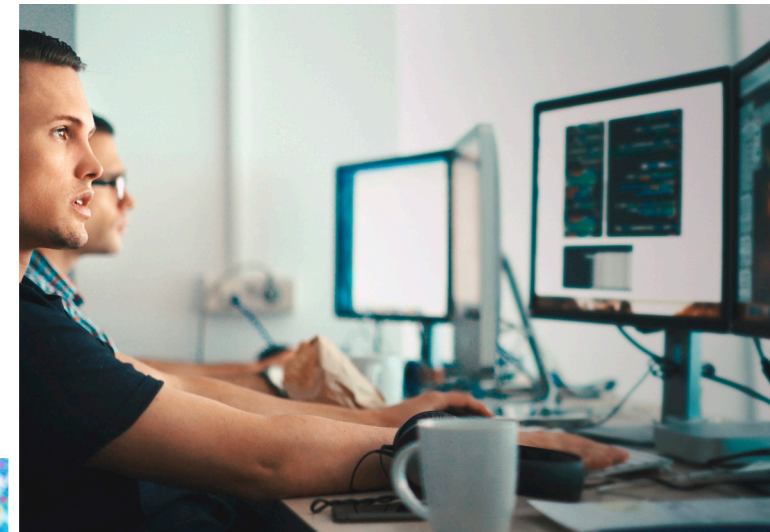
DIGITAL SIGNAGE

Digital advertising areas, information screens and electronic signs are now an integral part of everyday life. Shuttle supplies the right player for every scenario – and for a wide range of operating systems. These compact machines are all characterised by their robust design. They range from ultra-high-performance models and machines with innumerable ports and connections to low-energy, continuously running fanless devices. High-strength steel and a broad temperature spectrum enable installation even in difficult environments.

SERVER

As a UTM/firewall, file server, web server or mail server and much more – the Mini-PCs from Shuttle cut a fine figure. Two network connections (and even more via expansion cards) as well as Wi-Fi make it possible to set up versatile server services or integrate them into existing complex network structures. Powerful processors guarantee a high packet throughput rate and up to 128 GB of memory enable virtualisation. Shuttle offers various solutions in different chassis formats for your specific server.

OFFICE

It is important to be able to work without disturbances and distracting noises. And a Shuttle slim desktop PC is the ideal companion at work – it stays discreetly in the background, but is also able to spring into action when needed. These tiny PC solutions meet your requirements precisely. You have a wide choice of processors, for example the energy-saving, dual-core Intel Celeron or the extremely powerful Intel Core i7 models. Is just 8 GB plenty for you or do you need 64 GB of memory? And what about the number of drives and network and data connections? Whatever your requirements, we have the right model for you.

INDUSTRY

Even in tough environments in which supreme reliability particularly matters, people choose products from Shuttle. Are you looking for fanless Mini-PCs for production environments and logistics centres? Perhaps robust technology for interlinked control cabinets with lots of inputs and outputs? Even versions with superb performance for demanding real-time calculations in the area of image recognition and data capture are available. Allow yourself to be impressed by our variety of products. If you have any questions, we will be happy to advise you.

GAMING

Over 60 frames per second, in highest resolution and with maximum depth of detail guarantee thrilling matches on the screen. The XPC cubes from Shuttle offer space for current Intel Core processors, up to 128 GB of RAM and the latest dual-slot graphics cards. In conjunction with a quick NVMe SSD, you can move on to the next map and a higher level without a long wait. One major advantage of Mini-PCs is their space-saving size. This means that a Shuttle XPC cube can swiftly be stored away in a small bag and then easily set up anywhere.

Robust Panel PCs

XPC ALL-IN-ONE

X50V8 **X50V8U3**

CASE CHARACTERISTICS

- Plastic case with integrated touchscreen
- Available in black or white
- Movable stand or 75/100 VESA mount
- Connectors on the side and bottom of the case
- One bay for a 2.5" HDD/SSD
- One slot for an NVMe SSD
- Status LEDs
- Camera with 2 megapixel
- Stereo speakers and microphone
- Always on jumper
- External power supply
- Weight 3,500 g
- Fanless cooling
- IP54 protection of front panel
- Ambient temperature range 0–40 °C
- Air humidity range 10–90 %
- 4.2 × 39.1 × 32.7 cm (LWH)

PERFORMANCE FEATURES

	X50V8	X50V8U3
Display	1366×768, resistive single-touch screen, 39.6 cm (15.6")	
Processor	Intel Celeron 5205U	Intel Core i3-10110U
Slots	1× M.2-2230, 1× M.2-2280	
Empty slots	1× M.2-2280	
Memory	Up to 2× 32 GB DDR4 SO-DIMM (64 GB)	
Graphics	Intel UHD Graphics for 10th Gen Intel Processors	
Display connectors	1× HDMI 1.4b, 1× VGA	
Network	1× Gigabit Ethernet (Intel i211), Wi-Fi (ac), Bluetooth	
External connections	4× USB 3.2 Gen 1 (5 Gbit) type A, 2× USB 2.0 type A, audio, mic	
Internal connections	1× USB 2.0 Typ A, 1× SATA	
Drives	1× 2.5" SATA, 1× NVMe, SD-Cardreader	
Power supply	65 Watt, 19 Volt DC	
Supported operating voltage	12 Volt ±5 % and 19 Volt ±5 %	
OS support	Windows 10, Windows 11, Linux (64 Bit)	
Further information	go.shuttle.eu/D81Am	go.shuttle.eu/OboQc
Options	1× Parallel + 2× RS-232 or 1× Parallel + 4× RS-232 + 1× DIO	

15.6" screen, multi-touch, capacitive

P52U

P52U3

CASE CHARACTERISTICS

- Plastic case with integrated touchscreen
- Movable stand or 75/100 VESA mount
- Connectors on the side and bottom of the case
- One bay for a 2.5" HDD/SSD
- One slot for an NVMe SSD
- Camera with 2 megapixel
- Stereo speaker and microphone
- Always on jumper
- External power supply
- Weight 3,250 g
- Fanless cooling
- IP54 protection of front panel
- Ambient temperature range 0–40 ℃
- Air humidity range 10–90 %
- 4.0 × 39.4 × 27.3 cm (LWH)

PERFORMANCE FEATURES

Display	1920×1080, capacitive 10-point multi-touch screen, 39.6 cm (15.6")	
Processor	Intel Celeron 5205U	Intel Core i3-10110U
Slots	1× M.2-2230, 1× M.2-2280	
Empty slots	1× M.2-2230, 1× M.2-2280	
Memory	Up to 2× 32 GB DDR4 SO-DIMM (64 GB)	
Graphics	Intel UHD Graphics for 10th Gen Intel Processors	
Display connectors	1× HDMI 1.4b, 1× VGA	
Network	1× Gigabit Ethernet (Intel i219)	
External connections	2× USB 3.2 Gen 1 (5 Gbit) type A, 2× USB 2.0 type A, 2× RS-232, audio, mic	
Internal connections	1× USB 2.0 type A, 1× I²C, 1× SATA	
Drives	1× 2.5" SATA, 1× NVMe, SD card reader	
Power supply	65 Watt, 19 Volt DC	
Supported operating voltage	12 Volt ±5 % and 19 Volt ±5 %	
OS support	Windows 10, Windows 11, Linux (64 Bit)	
Further information	go.shuttle.eu/vnAi5	go.shuttle.eu/Ew70

Options	2× RS-232, Wi-Fi module with external antennas

19.5" screen, multi-touch, capacitive

P92U **P92U3** **P92U5**

CASE CHARACTERISTICS

- Plastic case with integrated touchscreen
- Available in black or white
- Movable stand or 75/100 VESA mount
- Connectors on the side and bottom of the case
- One bay for a 2.5" HDD/SSD
- One slot for an NVMe SSD
- Camera with 2 megapixel
- Stereo speaker and microphone
- Always on jumper
- External power supply
- Weight 4,290 g
- Fanless cooling
- IP54 protection of front panel
- Ambient temperature range 0–40 ℃
- Air humidity range 10–90 %
- 4.4 × 48.7 × 32.1 cm (LWH)

PERFORMANCE FEATURES

	P92U	P92U3	P92U5
Display	1600×900, capacitive 10-point multi-touch screen, 49.5 cm (19.5")		
Processor	Intel Celeron 5205U	Intel Core i3-10110U	Intel Core i5-10210U
Slots	1× M.2-2230, 1× M.2-2280		
Empty slots	1× M.2-2280		
Memory	Up to 2× 32 GB DDR4 SO-DIMM (64GB)		
Graphics	Intel UHD Graphics for 10th Gen Intel Processors		
Display connectors	1× HDMI 1.4b, 1× VGA		
Network	1× Gigabit Ethernet (Intel i219), Wi-Fi (ac), Bluetooth 4.2		
External connections	4× USB 3.2 Gen 1 (5 Gbit) type A, 2× USB 2.0 type A, audio, mic		
Internal connections	1× USB 2.0 type A, 1× I²C, 1× SATA		
Drives	1× 2.5" SATA, 1× NVMe, SD card reader		
Power supply	65 Watt, 19 Volt DC		
Supported operating voltage	12 Volt ±5 % and 19 Volt ±5 %		
OS support	Windows 10, Windows 11, Linux (64 Bit)		
Further information	go.shuttle.eu/mDASL	go.shuttle.eu/fZomA	go.shuttle.eu/Ckyac
Options	NFC module, 1× Parallel + 2× RS-232 or 1× Parallel + 4× RS-232 + 1× DIO		

11.6" screen, multi-touch, capacitive

P22U

- Plastic case with integrated touchscreen
- Detachable cable collector box
- Movable stand or 75/100 VESA mount
- Connectors on the side and bottom of the case
- One bay for a 2.5" HDD/SSD
- One slot for an NVMe SSD
- Camera with 1 megapixel
- Speaker and microphone
- External power supply
- Weight 2,470 g
- Fanless cooling
- IP54 protection of front panel
- Ambient temperature range 0–40 ℃
- Air humidity range 10–90 %
- 5.0 × 29.9 × 27.1 cm (LWH)

PERFORMANCE FEATURES

Display	1366×768, capacitive 10-point multi-touch screen, 29.5 cm (11.6")
Processor	Intel Celeron 5205U
Slots	1× M.2-2230, 1× M.2-2280
Empty slots	1× M.2-2230, 1× M.2-228
Memory	Up to 2× 32 GB DDR4 SO-DIMM (64 GB)
Graphics	Intel UHD Graphics for 10th Gen Intel Processors
Display connectors	1× HDMI 1.4b, 1× VGA
Network	1× Gigabit Ethernet (Intel i219)
External connections	4× USB 3.2 Gen 1 (5 Gbit) type A, 2× USB 2.0 type A, 2× RS-232, audio, mic
Internal connections	1× USB 2.0 type A, I²C, 1× SATA
Drives	1× 2.5" SATA, 1× NVMe, SD card reader
Power supply	65 Watt, 19 Volt DC
Supported operating voltage	12 Volt ±5 % and 19 Volt ±5 %
OS support	Windows 10, Windows 11, Linux (64 Bit)
Further information	go.shuttle.eu/SlvOt

Options	2× RS-232, WiFi ac & Bluetooth module

Heavy-duty Panel PCs

15.6" / 21.5" screen, multi-touch, capacitive

P21WL01 **M21WL01** **P15WL01**

CASE CHARACTERISTICS

- Heavy aluminium housing with integrated touch screen
- Modular housing
- 100×100 VESA mount
- Connectors on the bottom of the case, protected by cover
- One bay for a 2.5" HDD / SSD (except P15WL01)
- One slot for an NVMe SSD
- Camera with 2 megapixel
- External power supply
- Weight 4,600–7,600 g
- Fanless cooling
- IP65 protection of front panel
- Ambient temperature range 0–40 ℃
- Air humidity range 20–80 %

P21: 4.9 × 54.3 × 33.4 cm (LWH)
P15: 4.9 × 39.4 × 25.6 cm (LWH)

PERFORMANCE FEATURES

	P21WL01	M21WL01	P15WL01
Display	1920×1080, capacitive 10-point multi-touch screen, 54.6 cm (21.5")	1920×1080, capacitive 10-point multi-touch screen, 54.6 cm (21.5"), anti-septic coating	1920×1080, kapazitiver 10-Punkt-Multi-Touchscreen, 39.6 cm (15.6")
Processor	Intel Core i7-8665UE, Intel Core i5-8365UE, Intel Core i3-8145UE, Intel Celeron 4305UE		Intel Core i5-8365UE
Slots	1× M.2-2230, 1× M.2-2280		
Empty slots	1× M.2-2280		
Memory	Up to 2× 32 GB DDR4 SO-DIMM (64 GB)		
Graphics	Depending on the selected processor		Intel UHD Graphics 620
Display connectors	1× HDMI 1.4b, 1× DVI-I		1× HDMI 1.4b, 1× VGA
Network	2× Gigabit Ethernet (Intel i211, Intel i219LM), Wi-Fi (ac), Bluetooth 4.2		1× Gigabit Ethernet (Intel I219LM), WLAN 5 (ac), Bluetooth 4.2
External connections	4× USB 3.2 Gen 1 (5 Gbit) type A, 3× RS-232, audio, mic		4× USB 3.2 Gen 1 (5 Gbit) typ A, 1× RS-232, audio, mic
Internal connections	1× SATA		—
Drives	1× 2.5" SATA, 1× NVMe		1× NVMe
Power supply	90 Watt, 19 Volt DC	90 Watt, 19 Volt DC, complies with IEC 60601-1, EN55011 and FCC Class B	90 Watt, 19 Volt DC
Supported operating voltage	19 Volt ±5 %		
OS support	Windows 10, Windows 11, Linux (64 Bit)		
Further information	go.shuttle.eu/xZXdB	go.shuttle.eu/fP7Gm	sales@shuttle.eu

	P21WL01	M21WL01	P15WL01
Options	—	Module for extended input voltage range	

Fanless industrial PC, modular connectors

CASE CHARACTERISTICS

Multi-reinforced aluminium and steel housing

Individual operating positions, ready for VESA/wall mount

Connectors on the front and rear

One slot for an NVMe SSD

External power supply

Weight 2850 g

Fanless cooling

Ambient temperature range 0 – 40 °C or –20 – 60 °C

Air humidity range 0–90 %

16.9 × 25.5 × 5.7 cm (LWH)

PERFORMANCE FEATURES

	BPCWL02	BPCWL03	BPCAL02	BPCAL03
Processor	Intel Core i7-8665UE, Intel Core i5-8365UE, Intel Core i3-8145UE, Intel Celeron 4305UE		Intel Core i7-1255U, Intel Core i7-1265UE, Intel Core i5-1235U, Intel Core i5-1245UE, Intel Core i3-1215UE, Intel Celeron 7305E	
Slots	1× M.2-2230, 1× M.2-2280			
Empty slots	1× M.2-2280			
Memory	Up to 2× 32 GB DDR4 SO-DIMM (64 GB)		Up to 2× 32 GB DDR5 SO-DIMM (64 GB)	
Graphics	Depending on the selected processor			
Display connectors	1× HDMI 1.4b (further connections modularly expandable)		1× HDMI 2.0 (further connections modularly expandable)	
Network	2× Gigabit Ethernet (Intel i211, Intel i219LM)		1× 2,5 Gbit Ethernet (Intel i225), 1× Gigabit Ethernet (Intel i219LM)	
External connections	4× USB 3.2 Gen 1 (5 Gbit) type A, 1× RS-232, audio, mic		4× USB 3.2 Gen 2 (10 Gbit) type A, 1× RS-232, audio, mic	
Internal connections	—			
Drives	1× NVMe			
Power supply	90 Watt, 19 Volt DC	150 Watt, 19 Volt DC	90 Watt, 19 Volt DC	150 Watt, 19 Volt DC
Supported operating voltage	19 Volt ±5 %			
Supported ambient temperature	0 – 40 °C	–20 – 60 °C	0 – 40 °C	–20 – 60 °C
OS support	Windows 10, Windows 11, Linux (64 Bit)			
Further information	go.shuttle.eu/3gTYi	go.shuttle.eu/Vzu0w	sales@shuttle.eu	

Options	Two additional graphics ports, additional COM ports, additional USB 2.0 ports, additional network ports, DIO ports, Wi-Fi/Bluetooth, 4G/LTE function, ear mount, module for extended voltage range

Compact Embedded PCs

Suitable for control cabinets, fanless

EN01J4

- Steel chassis for different operating positions
- Desktop PC, ready for VESA-/DIN rail and wall mount
- Connectors on the side and rear
- One slot for an LTE/4G module
- Slot for a nano SIM card
- Standard Euroblock 2-pin power supply connector
- Status-LED
- Weight 480 g
- Ambient temperature range 0–40 °C
- Air humidity range 10–90 %
- 9.2 × 5.4 × 9 cm (LWH)

Processor	Pentium J4205
Slots	1× M.2-3032 B
Empty slots	1× M.2-3032 B
Memory	8 GB
Graphics	Intel HD Graphics 505
Display connectors	1× HDMI 1.4b
Network	1× Gigabit Ethernet (Realtek RTL8119I-CG)
External connections	2× USB 3.2 Gen 1 (5 Gbit) type A, 1× Micro USB 2.0
Internal connections	I/O header with two serial ports, 4× GPIO, I²C
Drives	64 GB Flash, SD card reader
Power supply	—
Supported operating voltage	12 Volt ±5 % to 19 Volt ±5 %
OS support	Windows 10, Windows 11, Linux (64 Bit)
Further information	go.shuttle.eu/VJ1UY

Options	Wi-Fi 5 (ac) & Bluetooth module, Wi-Fi 6 (ax) & Bluetooth, HDMI capture card, PoE module, PSE module, LTE antennas, power supply

1.3 litre format, fanless

CASE CHARACTERISTICS

- Steel chassis for different operating positions
- Stand for vertical operation and VESA-/wall mount
- Connectors on the front and rear
- One bay for a 2.5" HDD/SSD
- One slot for an NVMe SSD
- Status LEDs
- Remote power on connector
- Always on jumper
- External power supply
- Weight 1,430–1,500 g
- Fanless cooling
- Ambient temperature range 0–40 °C
- Air humidity range 10–90 %
- 20.0 × 16.5 × 3.95 cm (LWH)

PERFORMANCE FEATURES

	DS20UV2	DS20U3V2	DS20U5V2	DS20U7V2
Processor	Intel Celeron 5205U	Intel Core i3-10110U	Intel Core i5-10210U	Intel Core i7-10510U
Slots	1× M.2-2230, 1× M.2-2280			
Empty slots	1× M.2-2230, 1× M.2-2280			
Memory	Up to 2× 32 GB DDR4 SO-DIMM (64 GB)			
Graphics	Depending on the selected processor			
Display connectors	1× HDMI 2.0b, 1× DisplayPort 1.2, 1× VGA			
Network	1× 2,5 Gbit Ethernet (Intel i225), 1× Gigabit Ethernet (Intel i219LM)			
External connections	4× USB 3.2 Gen 1 (5 Gbit) type A, 4× USB 2.0 type A, 1× RS-232, audio, mic, Wi-Fi antennas	4× USB 3.2 Gen 2 (10 Gbit) type A, 4× USB 2.0 type A, 1× RS-232, audio, mic, Wi-Fi antennas		
Internal connections	1× SATA			
Drives	1× 2.5" SATA, 1× NVMe, SD card reader			
Power supply	65 Watt, 19 Volt DC			
Supported operating voltage	12 Volt ±5 % and 19 Volt ±5 %			
OS support	Windows 10, Windows 11, Linux (64 Bit)			
Further information	go.shuttle.eu/8fcLr	go.shuttle.eu/xQFBb	go.shuttle.eu/bKtaq	go.shuttle.eu/anDQ7

Options	Wi-Fi 5 (ac) & Bluetooth module, Wi-Fi 6 (ax) & Bluetooth, LTE kit, DIN rail mount, 19" 2U rack mount kit, cable for external power button

Robust Mini PCs

1.3 litre format, fanless

CASE CHARACTERISTICS

- Steel chassis for different operating positions
- Desktop PC, ready for VESA-/ wall mount
- Connectors on the front and rear
- One bay for a 2.5" HDD/SSD
- One slot for an NVMe SSD
- Status LEDs
- Remote power on connector
- Always on jumper
- External power supply
- Weight 1,300 g
- Fanless cooling
- Ambient temperature range 0–40 °C
- Air humidity range 10–90 %
- 19.0 × 16.5 × 4.3 cm (LWH)

PERFORMANCE FEATURES

	DL20NV2	DL20N6V2
Processor	Intel Celeron N4505	Intel Pentium Silver N6005
Slots	1× M.2-2230, 1× M.2-2280	
Empty slots	1× M.2-2280	
Memory	Up to 2× 8 GB DDR4 SO-DIMM (16 GB)	
Graphics	Intel UHD Graphics	
Display connectors	1× HDMI 2.0b, 1× DisplayPort 1.4a, 1× VGA	
Network	1× 2,5 Gigabit Ethernet (Intel i225)	
External connections	2× USB 3.2 Gen 2 (10 Gbit) type A, 2× USB 3.2 Gen 1 (5 Gbit) type A, 2× USB 2.0 type A, 2× RS-232, audio, mic,	
Internal connections	1× SATA	
Drives	1× 2.5" SATA, 1× NVMe, SD card reader	
Power supply	40 Watt, 19 Volt DC	
Supported operating voltage	12 Volt ±5 % and 19 Volt ±5 %	
OS support	Windows 10, Windows 11, Linux (64 Bit)	
Further information	go.shuttle.eu/4LwrC	go.shuttle.eu/w97mQ
Options	Wi-Fi 5 (ac) & Bluetooth module, Wi-Fi 6 (ax) & Bluetooth, LTE kit, DIN rail mount, vertical stand, 19" 2U rack mount kit, cable for external power button	

1.3 litre format, multi-screen support

CASE CHARACTERISTICS

- Steel chassis for different operating positions
- Desktop PC, ready for VESA-/ wall mount
- Connectors on the front and rear
- One bay for a 2.5"" HDD/SSD
- One slot for an NVMe SSD
- Status LEDs
- Remote power on connector
- Always on jumper
- External power supply
- Weight 1,030 g
- Heatpipe cooling
- Two linear controlled fans (60 and 50 mm)
- Ambient temperature range 0–50 °C
- Air humidity range 10–90 %
- 19.0 × 16.5 × 4.3 cm (LWH)

PERFORMANCE FEATURES

	DH02U	DH32U	DH32U5
Processor	Intel Celeron 3865U	Intel Pentium Gold 7505	Intel Core i5-1135G7
Slots		1× M.2-2230, 1× M.2-2280	
Empty slots		1× M.2-2230, 1× M.2-2280	
Memory	Up to 2× 16 GB DDR4 SO-DIMM (32 GB)	Up to 2× 32 GB DDR4 SO-DIMM (64 GB)	
Graphics	NVIDIA GeForce GTX 1050, 4 GB	Intel UHD Graphics for 11th Gen Intel Processors	
Display connectors		4× HDMI 2.0b	
Network	1× Gigabit Ethernet (Intel i211)	2× Gigabit Ethernet (Intel i211)	
External connections	4× USB 3.2 Gen 1 (5 Gbit) type A, 2× USB 2.0 type A, 1× RS-232, audio, mic	4× USB 3.2 Gen 1 (10 Gbit) type A, 4× USB 3.2 Gen 1 (5 Gbit) type A, 2× RS-232, audio, mic	
Internal connections		Audio I/O, VGA, 1× SATA	
Drives	1× 2.5" SATA, 1× NVMe	1× 2.5" SATA, 1× NVMe, SD card reader	
Power supply	120 Watt, 19 Volt DC	90 Watt, 19 Volt DC	
Supported operating voltage		19 Volt ±5 %	
OS support	Windows 10, Linux (64 Bit)	Windows 10, Windows 11, Linux (64 Bit)	
Further information	go.shuttle.eu/Kwfqe	go.shuttle.eu/bThZN	go.shuttle.eu/AKms3
Options	Wi-Fi 5 (ac) & Bluetooth module, Wi-Fi 6 (ax) & Bluetooth, DIN rail mount, vertical stand, 19" 2U rack mount kit, cable for external power button		

XPC SLIM

DH670

DH610

DH610S

CASE CHARACTERISTICS

- Steel chassis for different operating positions
- Desktop PC, ready for VESA-/ wall mount
- Connectors on the front and rear
- One bay for a 2.5" HDD/SSD
- One slot for an NVMe SSD
- Status LEDs
- Remote power on connector
- Always on jumper
- External power supply
- Weight 1,300 g
- Heatpipe cooling
- Two linear controlled fans (60 mm)
- Ambient temperature range 0–50 °C
- Air humidity range 10–90 %
- 19.0 × 16.5 × 4.3 cm (LWH)

PERFORMANCE FEATURES

	DH670	DH610	DH610S
Processor socket	LGA 1700, TDP max. 65 Watt		
Processor compatibility	Intel Core i3/i5/i7/i9, Pentium, Celeron (12th/13th Generation, 'Alder Lake' & 'Raptor Lake')		
Slots	1× M.2-2230, 1× M.2-2280		
Empty slots	1× M.2-2230, 1× M.2-2280		
Memory	Up to 2× 32 GB DDR4 SO-DIMM (64 GB)		
Graphics	Depending on the selected processor		
Display connectors	2× HDMI 2.0b, 2× DisplayPort 1.4	1× HDMI 2.0b, 2× DisplayPort 1.4	1× HDMI 2.0b, 1× DisplayPort 1.4
Network	2× Gigabit Ethernet (i210/i211), DH670V2: with 2× 2,5 Gbit (Intel i225)	1× 2,5 Gbit Ethernet (Intel i225), 1× Gigabit Ethernet (Intel i219V/LM)	1× Gigabit Ethernet (Intel i219V/LM)
External connections	4× USB 3.2 Gen 2 (10 Gbit) type A, 3× USB 3.2 Gen 1 (5 Gbit) type A, 1× USB 3.2 Gen 1 (5 Gbit) type C, 2× RS-232, audio, mic	3× USB 3.2 Gen 1 (5 Gbit) type A, 1× USB 3.2 Gen 1 (5 Gbit) type C, 4× USB 2.0 type A, audio, mic	
Internal connections	VGA, 1× SATA		
Drives	1× 2.5" SATA, 1× NVMe, SD card reader, DH670V2: without SD card reader	1× 2.5" SATA, 1× NVMe	
Power supply	120 Watt, 19 Volt DC		
Supported operating voltage	19 Volt ±5 %		
OS support	Windows 10, Windows 11, Linux (64 Bit)		
Further information	go.shuttle.eu/q5UQg	go.shuttle.eu/15Iai	go.shuttle.eu/gWINq
Options	VGA connector, Wi-Fi 5 (ac) & Bluetooth module, Wi-Fi 6 (ax) & Bluetooth, LTE kit, DIN rail mount, vertical stand, 19" 2U rack mount kit, cable for external power button		VGA connector, Wi-Fi 5 (ac) & Bluetooth module, Wi-Fi 6 (ax) & Bluetooth, LTE kit, VESA mount, DIN rail mount, vertical stand, 19" 2U rack mount kit, cable for external power button

1.3 litre format, heatpipe cooling

DH470C

Processor socket	LGA 1200, TDP max. 65 Watt
Processor compatibility	Intel Core i3/i5/i7/i9, Pentium, Celeron (10th Generation, 'Comet Lake')
Slots	1× M.2-2230, 1× M.2-2280
Empty slots	1× M.2-2230, 1× M.2-2280
Memory	Up to 2× 32 GB DDR4 SO-DIMM (64 GB)
Graphics	Depending on the selected processor
Display connectors	1× HDMI 2.0a, 2× DisplayPort 1.2
Network	2× Gigabit Ethernet (Intel i210-AT)
External connections	4× USB 3.2 Gen 2 (10 Gbit) type A, 3× USB 3.2 Gen 1 (5 Gbit) type A, 1× USB 3.2 Gen 1 (5 Gbit) type C, 2× RS-232, audio, mic
Internal connections	VGA, 1× SATA
Drives	1× 2.5" SATA, 1× NVMe, SD card reader
Power supply	90 Watt, 19 Volt DC
Supported operating voltage	19 Volt ±5 %
OS support	Windows 10, Windows 11, Linux (64 Bit)
Further information	go.shuttle.eu/yDRoO

Options	VGA connector, Wi-Fi 5 (ac) & Bluetooth module, Wi-Fi 6 (ax) & Bluetooth, LTE kit, DIN rail mount, vertical stand, 19" 2U rack mount kit, cable for external power button

Robust Mini PCs

3 litre format, heatpipe cooling

XH310RV

XH510G

CASE CHARACTERISTICS

- Steel chassis for different operating positions
- Desktop PC, ready for VESA-/ wall mount
- Connectors on the front and rear
- One to four 2.5" drive bays (SSD/HDD)
- One slot for an NVMe SSD
- One bay for an optical slimline drive (except XH510G)
- Status LEDs
- Remote power on connector (depending on model)
- Always on jumper
- External power supply
- Weight 2,200 g
- Heatpipe cooling
- Two linear controlled fans (60 mm)
- Ambient temperature range 0–50 °C
- Air humidity range 10–90 %
- 23.8 × 20.0 × 7.25 cm (LWH)

PERFORMANCE FEATURES

	XH310RV	XH510G
Processor socket	LGA 1151v2, TDP max. 65 Watt	LGA 1200, TDP max. 65 Watt
Processor compatibility	Intel Core i3/i5/i7/i9, Pentium, Celeron (8th/9th Generation, 'Coffee Lake')	Intel Core i3/i5/i7/i9, Pentium, Celeron (10th/11th Generation, 'Comet Lake' & 'Rocket Lake')
Slots	1× M.2-2230, 1× M.2-2280	1× M.2-2230, 2× M.2-2280, 1× PCI-Express-×16-4.0
Empty slots	1× M.2-2230, 1× M.2-2280	1× M.2-2230, 2× M.2-2280, 1× PCI-Express-×16-4.0
Memory	Up to 2× 16 GB DDR4 SO-DIMM (32 GB)	Up to 2× 32 GB DDR4 SO-DIMM (64 GB)
Graphics	Depending on the selected processor and PCIe graphics card	
Display connectors	1× HDMI 2.0a, 1× DisplayPort 1.2, 1× VGA	1× HDMI 2.0a,1× DisplayPort 1.4
Network	2× Gigabit Ethernet (Intel i211)	1× Gigabit Ethernet (Intel i219LM)
External connections	4× USB 3.2 Gen 1 (5 Gbit) type A, 4× USB 2.0 type A, 2× RS-232, audio, mic	4× USB 3.2 Gen 1 (5 Gbit) type A, 4× USB 2.0 type A, audio, mic
Internal connections	1× USB 2.0, eDP, 3× SATA, 2× RS-232, LPC	VGA, 1× SATA
Drives	2× 2.5" SATA, 1× Slimline SATA, 1× NVMe	1× 2.5" SATA, 1× NVMe, 1× M.2-SATA
Power supply	90 Watt, 19 Volt DC	180 Watt, 19,5 Volt DC
Supported operating voltage	12 Volt ±5 % and 19 Volt ±5 %	19 Volt ±5 %
OS support	Windows 10, Windows 11, Linux (64 Bit)	
Further information	go.shuttle.eu/82f0s	go.shuttle.eu/A0WVH

	XH310RV	XH510G
Options	Wi-Fi 5 (ac) & Bluetooth module, Wi-Fi 6 (ax) & Bluetooth, vertical stand, VESA mount, 3× RS-232, 3.5" HDD rack, cable for external power button	VGA connector, Wi-Fi 5 (ac) & Bluetooth module, Wi-Fi 6 (ax) & Bluetooth, COM port, cable for external power button

3 litre format, heatpipe cooling

XH610   **XH610V**

PERFORMANCE FEATURES

	XH610	XH610V
Processor socket	LGA 1700, TDP max. 65 Watt	
Processor compatibility	Intel Core i3/i5/i7/i9, Pentium, Celeron (12th/13th Generation, 'Alder Lake' & 'Raptor Lake')	
Slots	1× M.2-2230, 1× M.2-2280	
Empty slots	1× M.2-2230, 1× M.2-2280	
Memory	Up to 2× 32 GB DDR4 SO-DIMM (64 GB)	
Graphics	Depending on the selected processor and PCIe graphics card	
Display connectors	1× HDMI 2.0a, 1× DisplayPort 1.4, 1× VGA	
Network	1× 2,5 Gbit Ethernet (Intel I225), 1× Gigabit Ethernet (Intel I219LM)	
External connections	3× USB 3.2 Gen 1 (5 Gbit) Typ A, 1× USB 3.2 Gen 1 (5 Gbit) Typ C, 4× USB 2.0, 2× RS-232, Audio, Mic	
Internal connections	3× SATA (1× Slimline), 3× RS-232	
Drives	2× 2.5" SATA, 1× Slimline SATA, 1× NVMe	
Power supply	120 Watt, 19 Volt DC	
Supported operating voltage	12 Volt ±5 % and 19 Volt ±5 %	
OS support	Windows 10, Windows 11, Linux (64 Bit)	
Further information	go.shuttle.eu/vXrlw	go.shuttle.eu/lq9X8
Options	Wi-Fi 5 (ac) & Bluetooth module, Wi-Fi 6 (ax) & Bluetooth, 3× COM port, vertical stand, VESA mount, LTE kit, 3.5" HDD rack, cable for external power button	Wi-Fi 5 (ac) & Bluetooth module, Wi-Fi 6 (ax) & Bluetooth, vertical stand, VESA mount, LTE kit, 3.5" HDD rack, cable for external power button

Robust Mini PCs

XPC SLIM

XH510G2

CASE CHARACTERISTICS

- Steel chassis for different operating positions
- Desktop PC, ready for VESA-/ wall mount
- Connectors on the front and rear
- One bay for a 2.5" HDD/SSD
- One slot for an NVMe SSD
- Status LEDs
- Remote power on connector
- Always on jumper
- External power supply
- Weight 2,980 g
- Heatpipe cooling
- Two linear controlled fans (60 mm)
- Ambient temperature range 0–50 °C
- Air humidity range 10–90 %
- 25.0 × 20.0 × 9.5 cm (LWH)

PERFORMANCE FEATURES

Processor socket	LGA 1200, TDP max. 65 Watt
Processor compatibility	Intel Core i3/i5/i7/i9, Pentium, Celeron (10th/11th Generation, 'Comet Lake' & 'Rocket Lake')
Slots	1× M.2-2230, 2× M.2-2280, 1× PCI-Express-×16-4.0, 1× PCI-Express-×1-3.0
Empty slots	1× M.2-2230, 2× M.2-2280, 1× PCI-Express-×16-4.0, 1× PCI-Express-×1-3.0
Memory	Up to 2× 32 GB DDR4 SO-DIMM (64 GB)
Graphics	Depending on the selected processor and PCIe graphics card
Display connectors	1× HDMI 2.0a, 1× DisplayPort 1.4
Network	1× Gigabit Ethernet (Intel i219LM)
External connections	4× USB 3.2 Gen 1 (5 Gbit) type A, 4× USB 2.0 type A, audio, mic
Internal connections	VGA, 1× SATA
Drives	1× 2.5" SATA, 1× NVMe, 1× M.2-SATA
Power supply	180 Watt, 19,5 Volt DC
Supported operating voltage	19 Volt ±5 %
OS support	Windows 10, Windows 11, Linux (64 Bit)
Further information	go.shuttle.eu/lhdRf

Options	VGA connector, Wi-Fi 5 (ac) & Bluetooth module, Wi-Fi 6 (ax) & Bluetooth, LTE kit, COM port, cable for external power button, extension for second power supply

Compact mini server, for 4 HDDs

Cube format

SW580R8

SH570R8

CASE CHARACTERISTICS

- Aluminium case
- Desktop PC
- Connectors on the front and rear
- 4 bays for 3.5" HDD/SSD (alternatively 2.5" HDD/SSD with optional drive holder)
- One to two slots for NVMe SSDs
- Status LEDs
- Remote power on connector (depending on model)
- Internal power supply
- Weight 3,500 g
- Heatpipe cooling
- Two linear controlled fans (92 mm and 80 mm)
- Ambient temperature range 0–40 °C
- Air humidity range 10–90 %
- 33.2 × 21.5 × 19.0 cm (LWH)

PERFORMANCE FEATURES

	SW580R8	SH570R8
Processor socket	LGA 1200, TDP max. 125 Watt	
Processor compatibility	Intel Core i3/i5/i7/i9, Xeon, Pentium, Celeron (10th/11th Generation, 'Comet Lake' & 'Rocket Lake')	Intel Core i3/i5/i7/i9, Pentium, Celeron (10th/11th Generation, 'Comet Lake' & 'Rocket Lake')
Slots	1× M.2-2230, 2× M.2-2280, 1× PCIe-×16-3.0, 1× PCIe-×4-4.0	1× M.2-2230, 1× M.2-2280, 1× PCIe-×16-3.0, 1× PCIe-×4-4.0
Empty slots	1× M.2-2230, 2× M.2-2280, 1× PCIe-×16-3.0, 1× PCIe-×4-4.0	1× M.2-2230, 1× M.2-2280, 1× PCIe-×16-3.0, 1× PCIe-×4-4.0
Memory	Up to 4× 32 GB DDR4 DIMM (128 GB), ECC-compatible with Xeon processor	Up to 4× 32 GB DDR4 DIMM (128 GB)
Graphics	Depending on the selected processor and PCIe graphics card	
Display connectors	1× HDMI 2.0b, 2× DisplayPort 1.4	
Network	2× 2,5 Gbit Ethernet (Realtek 8125b), 2× Gigabit Ethernet (Intel i211/i219LM)	2× Gigabit Ethernet (Intel i211, Intel i219LM)
External connections	4× USB 3.2 Gen 2 (10 Gbit) type A, 1× USB 3.2 Gen 1 (5 Gbit) type C, 3× USB 3.2 Gen 1 (5 Gbit) type A, 4× USB 2.0 type A, audio, mic	
Internal connections	1× RS-232, 2× USB 2.0, 4× SATA, fan connector	
Drives	4× 2.5"/3.5" SATA, 1× NVMe, 1× M.2-SATA	4× 2.5"/3.5" SATA, 1× NVMe
Power supply	500 Watt	
Supported operating voltage	100 Volt to 240 Volt	
OS support	Windows 10, Windows 11, Linux (64 Bit)	
Further information	go.shuttle.eu/I8ZUW	go.shuttle.eu/3Fvr4

Options	850 Watt power supply, RS-232, Wi-Fi 5 (ac) & Bluetooth module, Wi-Fi 6 (ax) & Bluetooth, 2.5" HDD/SSD expansion frame, cable for external power button

Cube format

Compact workstations, heatpipe cooling

XPC CUBE

SH510R4

SH610R4

CASE CHARACTERISTICS

- Aluminium case
- Desktop PC
- Connectors on the front and rear
- 2 Bays for 3.5" HDD/SSD (4 Bays for 2.5" HDD/SDD with optional drive holder)
- One slot for an NVMe SSD
- One bay for optical 5.25" drive
- Status LEDs
- Remote power on connector (depending on model)
- Internal power supply
- Weight 3,500 g
- Heatpipe cooling
- One linear controlled fan (92 mm)
- Ambient temperature range 0–40 °C
- Air humidity range 10–90 %
- 33.2 × 21.5 × 19.0 cm (LWH)

PERFORMANCE FEATURES

	SH510R4	SH610R4
Processor socket	LGA 1200, TDP max. 125 Watt	LGA 1700, TDP max. 125 Watt
Processor compatibility	Intel Core i3/i5/i7/i9, Pentium, Celeron (10th/11th Generation, 'Comet Lake' & 'Rocket Lake')	Intel Core i3/i5/i7/i9, Pentium, Celeron (12th/13th Generation, 'Alder Lake' & 'Raptor Lake')
Slots	1× M.2-2230, 1× M.2-2280, 1× PCIe-×16-4.0, 1× PCIe-×1-3.0	
Empty slots	1× M.2-2230, 1× M.2-2280, 1× PCIe-×16-4.0, 1× PCIe-×1-3.0	
Memory	Up to 2× 32 GB DDR4 DIMM (64 GB)	
Graphics	Depending on the selected processor and PCIe graphics card	
Display connectors	1× HDMI 2.0b, 1× DisplayPort 1.4, 1× VGA	1× HDMI 2.0b, 2× DisplayPort 1.4, 1× VGA
Network	1× Gigabit Ethernet (Intel i219LM)	2× Gigabit Ethernet (Intel i210AT, Intel i219LM Phy)
External connections	4× USB 3.2 Gen 1 (5 Gbit) type A, 4× USB 2.0 type A, audio, mic, Remote-Power-On	
Internal connections	1× RS-232, 1× USB 2.0, 4× SATA, fan connector	
Drives	3× 2.5" SATA/2× 3.5" SATA/1× 5.25" SATA, 1× NVMe	
Power supply	300 Watt	
Supported operating voltage	100 Volt to 240 Volt	
OS support	Windows 10, Windows 11, Linux (64 Bit)	
Further information	go.shuttle.eu/ZI8of	go.shuttle.eu/s8dSo

Options	PSU 500 Watt, PSU 850 Watt, RS-232, Wi-Fi 5 (ac) & Bluetooth module, Wi-Fi 6 (ax) & Bluetooth, 2.5" HDD/SSD expansion frame, cable for external power button

Compact workstations, heatpipe cooling

Cube format

SH570R6

SH570R6 Plus

PERFORMANCE FEATURES

	SH570R6	SH570R6 Plus
Processor socket	LGA 1200, TDP max. 125 Watt	
Processor compatibility	Intel Core i3/i5/i7/i9, Pentium, Celeron (10th/11th Generation, 'Comet Lake' & 'Rocket Lake')	
Slots	1× M.2-2230, 1× M.2-2280, 1× PCIe-×16-3.0, 1× PCIe-×4-4.0	
Empty slots	1× M.2-2230, 1× M.2-2280, 1× PCIe-×16-3.0, 1× PCIe-×4-4.0	
Memory	Up to 4× 32 GB DDR4 DIMM (128 GB)	
Graphics	Depending on the selected processor and PCIe graphics card	
Display connectors	1× HDMI 2.0b, 2× DisplayPort 1.4	
Network	2× Gigabit Ethernet (Intel i211, Intel i219LM)	
External connections	4× USB 3.2 Gen 2 (10 Gbit) type A, 4× USB 3.2 Gen 1 (5 Gbit) type C, 3× USB 3.2 Gen 1 (5 Gbit) type A, 4× USB 2.0 type A, audio, mic	
Internal connections	RS-232, 2× USB 2.0, 4× SATA, fan connector	
Drives	4× 2.5" SATA/2× 3.5" SATA/1× 5.25" SATA, 1× NVMe	
Power supply	300 Watt	500 Watt
Supported operating voltage	100 Volt to 240 Volt	
OS support	Windows 10, Windows 11, Linux (64 Bit)	
Further information	go.shuttle.eu/C3QHi	go.shuttle.eu/cyF6p

Options	PSU 500 Watt, PSU 850 Watt, RS-232, Wi-Fi 5 (ac) & Bluetooth module, Wi-Fi 6 (ax) & Bluetooth, 2.5" HDD/SSD expansion frame, cable for external power button	PSU 850 Watt, RS-232, Wi-Fi 5 (ac) & Bluetooth module, Wi-Fi 6 (ax) & Bluetooth, 2.5" HDD/SSD expansion frame, cable for external power button

Compact Desktop PCs

Space-saving format

CASE CHARACTERISTICS

	NC10U	NC10U3	NC10U5	NC10U7
Processor	Intel Celeron 4205U	Intel Core i3-8145U	Intel Core i5-8265U	Intel Core i7-8565U
Slots	1× M.2-2230, 1× M.2-2280			
Empty slots	1× M.2-2280			
Memory	Up to 2× 16 GB DDR4 SO-DIMM (32 GB)			
Graphics	Intel UHD Graphics 610	Intel UHD Graphics 620		
Display connectors	1× HDMI 2.0a, 1× DisplayPort 1.2			
Network	1× Gigabit Ethernet (Intel i211), Wi-Fi (n)			
External connections	1× USB 3.2 Gen 1 (5 Gbit) type A, 1× USB 3.2 Gen 1 (5 Gbit) type C, 2× USB 2.0 type A, 1× RS-232, audio/mic combo			
Internal connections	1× SATA			
Drives	1× 2.5" SATA, 1× NVMe, SD card reader			
Power supply	65 Watt, 19 Volt DC			
Supported operating voltage	19 Volt ±5 %			
OS support	Windows 10, Windows 11, Linux (64 Bit)			
Further information	go.shuttle.eu/iBzHY	go.shuttle.eu/dse2m	go.shuttle.eu/d2jpc	go.shuttle.eu/k4b5l
Options	Wi-Fi (ac) & Bluetooth, DIN rail mount			

PERFORMANCE FEATURES

CASE CHARACTERISTICS

- Plastic case for different operating positions
- Stand for vertical operation and VESA-/wall mount
- Connectors on the front, side and rear
- One bay for a 2.5"" HDD/SSD
- One slot for an NVMe SSD
- Status LEDs
- Always on jumper
- External power supply
- Weight 400 g
- Heatpipe cooling
- One linear controlled fan (50 mm)
- Ambient temperature range 0–40 °C
- Air humidity range 10–90 %
- 14.2 × 14.2 × 4.2 cm (LWH)

Space-saving format

	NC40U	NC40U3	NC40U5	NC40U7
Processor	Intel Celeron 7305	Intel Core i3-1215U	Intel Core i5-1235U	Intel Core i7-1255U
Slots	1× M.2-2230, 2× M.2-2280			
Empty slots	1× M.2-2230, 2× M.2-2280			
Memory	Up to 2× 32 GB DDR4 SO-DIMM (64 GB)			
Graphics	Intel UHD Graphics for 12th Gen Intel Processors		Intel Iris Xe	
Display connectors	1× HDMI 2.0b, 1× DisplayPort 1.4a, 1× USB type C			
Network	1× Gigabit Ethernet (Intel I211)			
External connections	2× USB 3.2 Gen 2 (10 Gbit) type A, 4× USB 3.2 Gen 1 (5 Gbit) type A, 1× USB 3.2 Gen 1 (5 Gbit) type C, 2× USB 2.0 type A, 1× RS-232, audio/mic combo			
Internal connections	1× SATA			
Drives	1× 2.5" SATA, 1× NVMe			
Power supply	65 Watt, 19 Volt DC			
Supported operating voltage	19 Volt ±5 %			
OS support	Windows 10, Windows 11, Linux (64 Bit)			
Further information	go.shuttle.eu/SiXMN	go.shuttle.eu/Z178A	go.shuttle.eu/7tPxM	go.shuttle.eu/NMgEf
Options	Wi-Fi (ac) & Bluetooth			

PERFORMANCE FEATURES

Android-based, fanless

Compact Embedded PCs

	NS02AV2	**NS02EV2**	**NS03A**	**NS03E**

- Plastic case for different operating positions
- Desktop PC, ready for VESA-/wall mount
- Connectors on the front and rear
- Status LEDs
- Remote power on connector
- External power supply or PoE power source
- Weight 270 g
- Fanless cooling
- Ambient temperature range 0–40 °C
- Air humidity range 10–90 %
- 14.1 × 14.1 × 2.9 cm (LWH)

	NS02AV2	NS02EV2	NS03A	NS03E
Processor	Rockchip RK3368 Octa-Core Cortex-A53 (ARM)		Rockchip RK3568 Quad-Core Cortex-A55 (ARM)	
Slots	—		1× M.2-2280	
Empty slots	—		1× M.2-2280	
Memory	2 GB DDR3L			
Graphics	PowerVR SGX6110			
Display connectors	1× HDMI 2.0		1× HDMI 2.0, 1× HDMI 1.4	
Network	1× Gigabit Ethernet (Realtek RTL8211F-CG), Wi-Fi (n), Bluetooth 5.0		1× Gigabit Ethernet (Realtek RTL8211E-VB-CG), Wi-Fi (n), Bluetooth 5.0	
External connections	4× USB 2.0 type A, audio		2× USB 3.2 Gen 1 (5 Gbit) type A, 2× USB 2.0 type A, audio	
Internal connections	—			
Drives	16 GB Flash, SD card reader		32 GB Flash, 1× NVMe, SD card reader	
Power supply	24 Watt, 12 Volt DC	PoE (IEEE 802.3at)	36 Watt, 12 Volt DC	PoE (IEEE 802.3at)
Supported Operating Voltage	12 Volt	36–57 Volt	12 Volt	36–57 Volt
Operating system	Android 8.1 ('Oreo')		Android 11, Debian 10	
Further information	go.shuttle.eu/eUZPg	go.shuttle.eu/KRaDw	go.shuttle.eu/H7tqv	go.shuttle.eu/7Q6ra
Options	—			

Biometric signage solution

Bar-type Displays

D230 (Standalone)   D230 (Server-based)
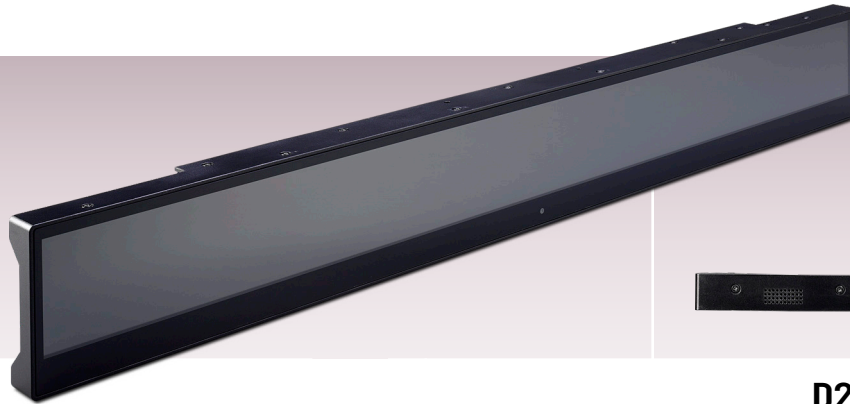
CASE CHARACTERISTICS

- Plastic case with integrated display
- Rail for VESA and clamp mount
- Connectors on the side and on the bottom
- Camera with 2 megapixel
- Speaker
- External power supply or PoE power source
- Cascading power connections
- Fanless cooling
- IP54 protection of front panel
- Ambient temperature range 0–40 °C
- Air humidity range 10–90 %
- 2.9 × 60.3 × 7.5 cm (LWH)

PERFORMANCE FEATURES

	D230 (Standalone)	D230 (Server-based)
Display	1920×158 (23.1")	
Processor	Rockchip RK3399, Cortex A72 Dual-Core, A53 Quad-Core (ARM)	
Slots	—	M.2-3042 (for LTE module)
Empty slots	—	M.2-3042 (for LTE module)
Memory	2 GB	
Graphics	Mali-T864	
Display connectors	—	
Network	1× Ethernet, Wi-Fi-ac, Bluetooth 5.0	
External connections	1× USB 2.0 Typ A, Audio	
Internal connections	—	
Drives	16 GB Flash, SD card reader	
Power supply	24 Watt, 12 Volt DC or PoE (IEEE 802.3at)	
Supported operating voltage	12 Volt ±5 % and 19,5 Volt ±5 % (PoE 48 Volt)	
Operating system	Android 7.1 ('Nougat')	
Further information	go.shuttle.eu/8ksvw	
Options	Concatenation Accessory Kit	

* Errors, technical specifications subject to change. All brand names are property of their respective owners.

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