

PRODUCT GUIDE

Shuttle[®]

Superb for Home
Work
Business and Industrial applications

Taiwan

Shuttle Headquarters

No. 30, Lane 76, Rui-Guang Rd., Nei-Hu Dist., Taipei City, Taiwan
TEL : +886-2-8792-6168 **FAX :** +886-2-8792-6268
SALES E-MAIL : sales@tw.shuttle.com **MEDIA CONTACT :** shuttlepr@tw.shuttle.com

USA

Shuttle Computer Group INC.

17068 Evergreen Place, City of Industry, CA 91745
TEL : +1-626-820-9000 **FAX :** +1-626-820-5060
SALES E-MAIL : sales@us.shuttle.com

Germany

Shuttle Computer Handels GES. M.B.H.

Fritz-Strassmann Str. 5, D-25337 Elmshorn, Germany
TEL : +49-4121-476860 **FAX :** +49-4121-476900
SALES E-MAIL : sales@shuttle.eu

Japan

Japan Shuttle Co., Ltd

2F Murakami Bldg., 1-8-3 Ojima Koto-ku Tokyo, 136-0072 Japan
TEL : +81-3-5625-1670 **FAX :** +81-3-5625-1673
SALES E-MAIL : sales@shuttle-japan.jp

China

Shuttle Commerce (Shenzhen) Ltd.

3803, Baofa Building, Shenyang Road, Shatoujiao, Yantian District,
Shenzhen City, China
TEL : +86-755-2535-9906
SALES E-MAIL : salescn@cn.shuttle.com

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Shuttle[®]
www.shuttle.com





DIGITAL
SIGNAGE

SMART
RETAIL

EDGE
COMPUTING

IOT
SOLUTION

AUTOMATION
CONTROL

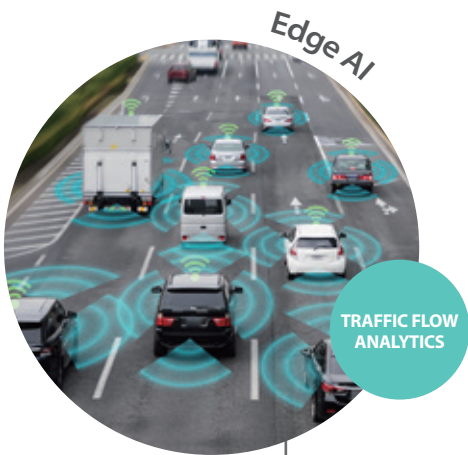
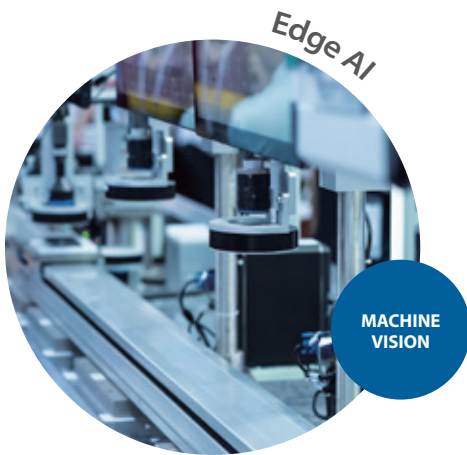
SMART
MEDICAL

KIOSK
SOLUTION

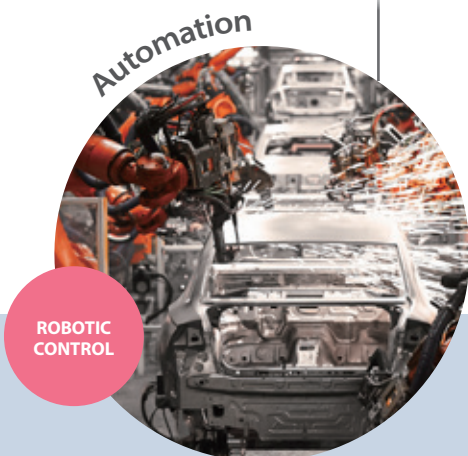
Company Profile

Established in 1983, Shuttle Inc. has a solid foundation in manufacturing commercial and industrial computers. We believe that the core value of technology is the combination of technique, humans, and the environment. With years of experience, Digital Signage, Smart Retail, Edge Computing, IoT, Automation Control, etc., are our fields of expertise where the most potent hardware is built. Furthermore, Shuttle synchronously increases the investment in software development and system integration, aiming to become an innovative partnership in the emerging IoT market to keep pace with the fast-growing IoT demands. Among many intelligent application sectors, smart medical is one of the vital business directions of the company. Thus, Shuttle continuously broadens and develops its product portfolio, including Embedded Box PC, medical-grade industrial PC, Kiosks, and other IoT healthcare solutions..

Applications



XPC Product Line



Space-Saving, Scalable Workstation

The industry-renowned XPC cube series is only 1/3-size of a traditional tower. It offers a wide choice of processors, storage and expansion card capabilities, I/O connectivity, and a silent cooling design for almost limitless applications.



PCI-e slot



3.5" HDD



Aluminum Case



I.C.E.



XPC CUBE

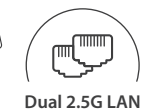
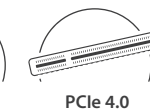


Leap to Next Level Productivity

Solid and Feature-Rich For Every Professional

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

SW580R8



Feature

- Support Intel® Xeon® W-1000 series processors and 10th/11th Gen Intel® Core™ processors
- Support DDR4-3200 ECC/Non-ECC memory up to 128GB
- Support Intel vPro® that helps minimize the risks associated with security threats
- Dual 2.5 Gigabit LAN and dual Intel® Gigabit Lan support for Wake on Lan, Teaming Mode
- Equipped with one PCIe 4.0 x16, one PCIe 3.0 x4, and two M.2 2280 M key
- Built-in 4 x USB 3.2 Gen2, 4 x USB 3.2 Gen1 (includes a Type-C), and 4 x USB 2.0

SH570R6

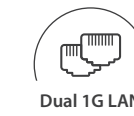
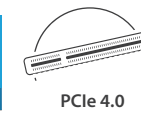


Custom Multi-Core and Fast Workstation PC For Professional Use

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

Feature

- Support 10th/11th Gen Intel® Core™, Pentium®, Celeron® 125W LGA 1200 processors
- Equipped one PCIe 4.0 x16, one PCIe 3.0 x4 and one PCIe 3.0 M.2 2280 Socket
- Provided 4 x USB 3.2 Gen 2, 4 x USB 3.2 Gen 1 (including one with Type-C) and 4 x USB 2.0
- Three 4K displays via one HDMI 2.0b and two DisplayPort
- Dual Intel® Gigabit LAN supports Wake On LAN and Teaming Mode function





Economical and Capable Workstation

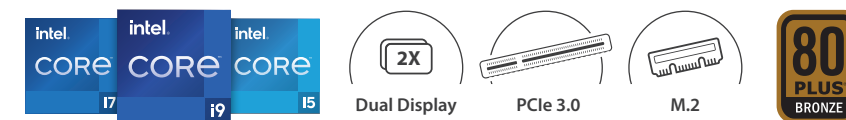
Your Best Choice For Entry-level PC

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

Feature

- Support 10th/11th Gen Intel® Core™, Pentium®, Celeron® 125W LGA 1200 processors
- Equipped with Shuttle's exclusive I.C.E. 2 cooling engine
- Superb Scalability with PCIe 4.0 and M.2
- Customizable Front Panel
- 4K UHD Experience and Dual Display Productivity

SH510R4





SW580R8

Processor	Intel® 11 th /10 th Gen LGA1200 socket Xeon, Core i3/i5/i7/i9, Pentium, Celeron 125W processor
Chipset	Intel® W580
Video Engine Processor	Intel® UHD Graphics series
Max Resolution	HDMI : 4096 x 2160@60Hz DisplayPort : 4096 x 2160@60Hz
Memory	4 x DDR4 3200/2933/2666, Max. 128GB (ECC DRAM support with Xeon)
Storage	4 x 3.5" HDD
Expansion Slot	PCI Express Slots : 1 x PCI-e x16 / 1 x PCI-e x4 M.2 : 2 x M.2 2280, M Key / 1 x M.2 2230, E Key
Audio	HD 5.1 channel
HDMI Port	1
DisplayPort	2
VGA Port	-
USB 3.2 (Front)	Gen1 : 4 (Include Type C x1)
USB 3.2 (Rear)	Gen2 : 4
USB 2.0 (Front)	-
USB 2.0 (Rear)	4
Line in/ Line out/Mic in	1 / 2 / 2
Network	LAN : 2 x Intel® 1G LAN Wifi : Optional
Dimension	L : 332 x W : 216 x H : 198 mm
Weight	NW (kg) : 3.5 / GW (kg) : 5
Certification	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI
Operating Temperature	0~40
Chassis	Aluminum
Power Supply	500W 80 Plus Gold Flex ATX
Operating System	Windows 10/11 64bit, Linux
Optional Accessories	WLN-M, PHD3



SH570R8

Processor	Intel® 11 th /10 th Gen LGA1200 socket Core i3/i5/i7/i9, Pentium, Celeron 125W processor
Chipset	Intel® H570
Video Engine Processor	Intel® UHD Graphics series
Max Resolution	HDMI : 4096 x 2160@60Hz DisplayPort : 4096 x 2160@60Hz
Memory	4 x DDR4 3200/2933/2666 MHz, Max. 128GB
Storage	4 x 3.5" HDD
Expansion Slot	PCI Express Slots : 1 x PCI-e x16 / 1 x PCI-e x4 M.2 : 1 x M.2 2280, M Key / 1 x M.2 2230, E Key
Audio	HD 5.1 channel
HDMI Port	1
DisplayPort	2
VGA Port	-
USB 3.2 (Front)	Gen1 : 4 (Include Type C x1)
USB 3.2 (Rear)	Gen2 : 4
USB 2.0 (Front)	-
USB 2.0 (Rear)	4
Line in/ Line out/Mic in	1 / 2 / 2
Network	LAN : 2 x Intel® 1G LAN Wifi : Optional
Dimension	L : 332 x W : 216 x H : 198 mm
Weight	NW (kg) : 3.5 / GW (kg) : 5
Certification	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI
Operating Temperature	0~40
Chassis	Aluminum
Power Supply	500W 80 Plus Gold Flex ATX
Operating System	Windows 10/11 64bit, Linux
Optional Accessories	WLN-M, PHD3



SH570R6

Processor	Intel® 11 th /10 th Gen LGA1200 socket Core i3/i5/i7/i9, Pentium, Celeron 125W processor
Chipset	Intel® H570
Video Engine Processor	Intel® UHD Graphics series
Max Resolution	HDMI : 4096 x 2160@60Hz DisplayPort : 4096 x 2160@60Hz
Memory	4 x DDR4 3200/2933/2666 MHz, Max. 128GB
Storage	2 x 3.5" HDD / 1 x 5.25" ODD Bay
Expansion Slot	PCI Express Slots : 1 x PCI-e x16 / 1 x PCI-e x4 M.2 : 1 x M.2 2280, M Key / 1 x M.2 2230, E Key
Audio	HD 5.1 channel
HDMI Port	1
DisplayPort	2
VGA Port	-
USB 3.2 (Front)	Gen1 : 4 (Include Type C x1)
USB 3.2 (Rear)	Gen2 : 4
USB 2.0 (Front)	-
USB 2.0 (Rear)	4
Line in/ Line out/Mic in	1 / 2 / 2
Network	LAN : 2 x Intel® 1G LAN Wifi : Optional
Dimension	L : 332 x W : 215 x H : 190 mm
Weight	NW (kg) : 3.5 / GW (kg) : 4.5
Certification	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI
Operating Temperature	0~40
Chassis	Aluminum
Power Supply	300W 80 Plus Bronze Flex ATX
Operating System	Windows 10/11 64bit, Linux
Optional Accessories	WLN-M, PHD3



SH510R4

Processor	Intel® 11 th /10 th Gen LGA1200 socket Core i3/i5/i7/i9, Pentium, Celeron 125W processor
Chipset	Intel® H510
Video Engine Processor	Intel® UHD Graphics series
Max Resolution	HDMI : 4096 x 2160@60Hz VGA : 1920x1080@60Hz DisplayPort : 4096 x 2160@60Hz
Memory	2 x DDR4 3200/2933/2666 MHz, Max. 64GB
Storage	2 x 3.5" HDD / 1 x 5.25" ODD Bay
Expansion Slot	PCI Express Slots : 1 x PCI-e x16 / 1 x PCI-e x1 M.2 : 1 x M.2 2280, M Key / 1 x M.2 2230, E Key
Audio	HD 5.1 channel
HDMI Port	1
DisplayPort	1
VGA Port	1
USB 3.2 (Front)	Gen1 : 2
USB 3.2 (Rear)	Gen1 : 2
USB 2.0 (Front)	-
USB 2.0 (Rear)	4
Line in/ Line out/Mic in	1 / 2 / 2
Network	LAN : 1 x Intel® 1G LAN Wifi : Optional
Dimension	L : 329 x W : 216 x H : 198 mm
Weight	NW (kg) : 3.3 / GW (kg) : 4.4
Certification	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI
Operating Temperature	0~40
Chassis	Aluminum
Power Supply	300W 80 Plus Bronze Flex ATX
Operating System	Windows 10/11 64bit, Linux
Optional Accessories	WLN-M, PHD3



XPC SLIM 3L/4L

Light Package And Big Value 3L Mini Pc

XPC slim 3L/4L series features a modern and space-saving chassis. To keep compact while reserving expansion of multi-functionality for AI and IoT application needs is the prominent feature of this series. Moreover, offer robust and reliable performance and provides rich connectivity for diverse industrial and commercial applications.



XH610 / XH610V

Robust 3-liter PC With Scalability For Diverse Applications

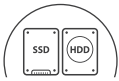
The XH610 and XH610V compact 3-liter slim pc feature robust performance and can be customized to drive highly interactive kiosks, vending machines, digital signage, and surveillance applications. Equipped with Intel® H610 chipset, it supports Intel® 12th LGA1700 65W processors and delivers 4K UHD video content. In terms of extra I/O capabilities, the series features HDMI 2.0b, DisplayPort, VGA, USB 3.2 Gen 1, USB 2.0, RS232, M.2, and 2.5 Gigabit LAN. Furthermore, its slim metal chassis is VESA mount compliant, allowing 24/7 operation even in 50°C environments.

intel
CORE
i7

intel
CORE
i9

intel
CORE
i5


Triple Display


3 x 2.5" SSD/HDD

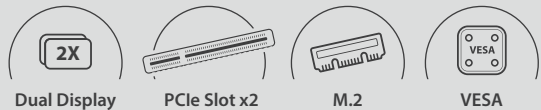

2.5G LAN


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Feature

- Support 12th Gen Intel® Core™, Pentium®, Celeron® 65W LGA 1700 processors
- Support one 3.5" HDD (optional with PHD4)
- Intel® 2.5GbE + Intel® 1GbE LAN
- Three independent displays via one HDMI 2.0b, one DisplayPort, and one VGA
- Rich connectivity** : 4 x USB 3.2 Gen1, 4 x USB 2.0, 2 x RS232, 1 x M.2 2280 M Key (PCIe 4.0 x4/SATA), 1 x M.2 2230 E Key

XH510G2



4.75-liter Space-Saving Volume

Build On A Solid Foundation With Two PCI-E Slots

Equips with Intel® H510 chipset, Shuttle XPC slim XH510G2 supports 10th/ 11th Gen Intel® Core™ processors delivering high-performance computing for high-speed processing applications. Despite its 4.75-liter compact chassis, XH510G2 provides two PCI-E slots to install an extra graphics card, capture card, or more to meet diverse application requirements. Furthermore, it offers multiple interfaces to connect peripherals, including 4 x USB 3.2 Gen1, 4 x USB 2.0, an HDMI 2.0, a DisplayPort 1.4, M.2 slots, and Intel® Gigabit LAN. As a result, it is perfect for the video wall, POS server, surveillance, professional creators, and Kiosk applications.



Feature

- Support 10th/11th Gen Intel® Core™, Pentium®, Celeron® 65W LGA 1200 processors
- Dual display productivity via one HDMI 2.0 and one DisplayPort 1.4
- 24/7 Certified, operable in 0-50°C
- Integrated Dual PCI-E Slots for various card installations : one PCI-E x16 and one PCI-E x1
- Rich connectivity** : 4 x USB 3.2 Gen 1, 4 x USB 2.0, 3 x M.2 slot, SATA connector, Intel® Gigabit LAN

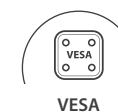
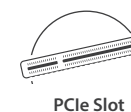
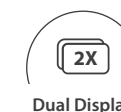


3 liter Mini PC with An Extra PCI-e x 16 Slot

Supports Flexibility In Edge Computing

Shuttle XH510G has a PCIe expansion slot that provides installing add-on cards to meet diverse circumstances. Equipped with Intel® H510 chipset and compatible with Intel® 11th Gen Rocket-Lake platform, it supports up to 8 cores and 16 threads for high-performance computing and 4K UHD content. Multiple I/O ports, including 4 x USB 3.2 Gen 1, 4 x USB 2.0, a SATA connector, 3 x M.2, and an Intel® Gigabit LAN. XH510G can be attached to a wall mount or a monitor mount for space-constrained applications, a standout performance for Data Acquisition System (DAQ), Digital Motion Control, Surveillance, and Kiosk.

XH510G



Feature

Support 10th/11th Gen Intel® Core™, Pentium®, Celeron® 65W LGA 1200 processors

Dual display productivity via one HDMI 2.0 and one DisplayPort 1.4

24/7 Certified, operable in 0-50°C

Built-in a PCI-e x 16 expansion slot for various card installation (maximum size 208.5 x 120 x 30mm)

Rich connectivity : 4 x USB 3.2 Gen 1, 4 x USB 2.0, 3 x M.2 slot, SATA connector, Intel® i219LM Gigabit LAN



XH610/ XH610V



Cooling system	Smart fan
Processor	Intel® 12 th Gen LGA1700 socket Core i3/i5/i7/i9, Pentium, Celeron 65W processor
Chipset	Intel® H610
Video Engine Processor	Intel® UHD Graphics series
Max Resolution	HDMI : 4096 x 2160@60Hz VGA : 1920 x 1080@60Hz DisplayPort : 4096 x 2160@60Hz
Memory	2 x DDR4 3200/2933/2666 MHz, Max. 64GB
Storage	2 x 2.5" HDD/SSD , 1 x slim ODD or 3 x 2.5" HDD /SSD
Expansion Slot	1 x M.2 2280, M Key / 1 x M.2 2230, E Key
HDMI Port	1
DisplayPort	1
VGA Port	1
USB 3.2 (Front)	Gen1 : 2
USB 3.2 (Rear)	Gen1 : 2
USB 2.0 (Front)	2
USB 2.0 (Rear)	2
COM Port	1 x RS232 (Max. 4) / 1 x RS232/422/485, Support 5V/12V
Line in/ Line out/Mic in	1 / 2 / 2
Network	LAN : 1 x Intel® 1G LAN / 1 x Intel® 2.5G LAN Wifi : Optional
VESA	Optional
Dimension	L : 241 x W : 200 x H : 72 mm
Weight	NW (kg) : 2.2 / GW (kg) : 3.5
Certification	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI
Operating Temperature	0~50
Chassis	Metal
Power Supply	19V/6.32A 120W external adapter
Operating System	Windows 10/11 64bit, Linux
Optional Accessories	PS01, PV02, PHD4, WLN-M,PCM31

XH510G2



Cooling system	Smart fan
Processor	Intel® 11 th /10 th Gen LGA1200 socket Core i3/i5/i7/i9, Pentium, Celeron 65W processor
Chipset	Intel® H510
Video Engine Processor	Intel® UHD Graphics series
Max Resolution	HDMI : 4096 x 2160@60Hz DisplayPort : 4096 x 2160@60Hz
Memory	2 x DDR4 3200/2933/2666 MHz, Max. 64GB
Storage	1 x 2.5" HDD/SSD (max. 12.5 mm)
Expansion Slot	2 x M.2 2280, M Key / 1 x M.2 2230, E Key 1 x PCIe x16 / 1 x PCIe x1 (PCIe card length Max 205mm)
HDMI Port	1
DisplayPort	1
VGA Port	Optional
USB 3.2 (Front)	Gen1 : 2
USB 3.2 (Rear)	Gen1 : 2
USB 2.0 (Front)	2
USB 2.0 (Rear)	2
COM Port	RS232 x 1 (Optional)
Line in/ Line out/Mic in	- / 1 / 1
Network	LAN : 1 x Intel® 1G LAN Wifi : Optional
VESA	Bracket included
Dimension	L : 250 x W : 200 x H : 95 mm
Weight	NW (kg) : 2.98 / GW (kg) : 3.49
Certification	CB, CE,BSMI,cTUVus,FCC, RCM, VCCI, RoHS
Operating Temperature	0~50
Chassis	Metal
Power Supply	19.5V/9.23A 180W external adapter
Operating System	Windows 10/11 64bit, Linux
Optional Accessories	WLN-M, WWN03

XH510G



Cooling system	Smart fan
Processor	Intel® 11 th /10 th Gen LGA1200 socket Core i3/i5/i7/i9, Pentium, Celeron 65W processor
Chipset	Intel® H510
Video Engine Processor	Intel® UHD Graphics series
Max Resolution	HDMI : 4096 x 2160@60Hz DisplayPort : 4096 x 2160@60Hz
Memory	2 x DDR4 3200/2933/2666 MHz, Max. 64GB
Storage	1 x 2.5" HDD/SSD (max. 12.5 mm)
Expansion Slot	2 x M.2 2280, M Key / 1 x M.2 2230, E Key 1 x PCIe x16 (PCIe card length Max 208mm)
HDMI Port	1
DisplayPort	1
VGA Port	Optional
USB 3.2 (Front)	Gen1 : 2
USB 3.2 (Rear)	Gen1 : 2
USB 2.0 (Front)	2
USB 2.0 (Rear)	2
COM Port	RS232 x 1 (Optional)
Line in/ Line out/Mic in	- / 1 / 1
Network	LAN : 1 x Intel® 1G LAN Wifi : Optional
VESA	Bracket included
Dimension	L : 250 x W : 200 x H : 78.5 mm
Weight	NW (kg) : 1.9 / GW (kg) : 3.2
Certification	CB, CE,BSMI,cTUVus,FCC, RCM, VCCI, RoHS
Operating Temperature	0~50
Chassis	Metal
Power Supply	19.5V/9.23A 180W external adapter
Operating System	Windows 10/11 64bit, Linux
Optional Accessories	WLN-M,PS01

XH410G



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

XPC SLIM 1L

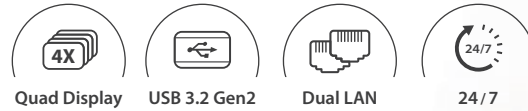


Packed With Clever Features In A Slim 1L Volume

With just a few centimeters thick in dimension, the XPC slim 1L series packs with ingenious technology make it the capability of multitasking and suitable for any limited space. Offer multiple interfaces to deliver expandability. VESA mount is compliant and easy to fit in any place. It's ideal for AIoT and digital signage applications.



DH670



12th Gen Intel Core™ AI-Enhanced Slim PC

Ultra-Visual Upgrades : Four Displays Productivity

DH670 supports Intel® 12th Gen Alder Lake hybrid architecture, combining high-performance and high-efficiency cores. Thanks to the new integrated Intel® UHD graphic processor, the model can deliver incredible clarity for 4K/60P and bring more achievement to AI and computer vision applications. Quad-display is supported via two HDMI 2.0b and two DisplayPort. DH670 offers multiple interfaces to deliver expandability and flexible connectivity, including four USB 3.2 Gen2, four USB 3.2 Gen1 (including one Type-C), two RS232 ports, and two M.2 expansion slots. It's suitable for various applications, such as digital signage and kiosk.

Feature

Support 12th Gen Intel® Core™, Pentium®, Celeron® 65W LGA 1700 processors

Support up to 64GB DDR4-3200 memory

Four independent displays via two HDMI 2.0b and two DisplayPort

Dual Intel® Gigabit LAN

Flexible connectivity : 4 x USB 3.2 Gen2, 4 x USB 3.2 Gen1 (including one Type-C), 2 x RS232, 1 x M.2 2280 M Key (PCIe 4.0 x4/SATA), 1 x M.2 2230 E Key



DH610



Robust Multitasking 1 Liter PC For 12th Gen Intel Core™ Processors

DH610 supports 12th Gen Intel® Core™ i3/i5/i7/i9 processors. With Intel® new performance hybrid architecture and UHD graphics integrated, it computes performance for powering AI deployment. Support up to three displays via one HDMI 2.0 and two DisplayPort for display productivity and flexibility. Moreover, the model provides comprehensive connectivity with multiple ports, including four USB 3.2 Gen1 (Including one Type-C), four USB 2.0, two RS232, Intel® 2.5GbE + Intel® 1GbE LAN, and two M.2 expansion slots. DH610 can perform a reliable operation suitable for Office, Digital Signage, and other Multi-platform AI deployment.

intel
CORE
i7

intel
CORE
i9

intel
CORE
i5

Triple Display

USB 3.2 Gen1

2.5G LAN

24/7

Feature

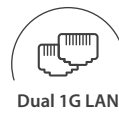
- Support 12th Gen Intel® Core™, Pentium®, Celeron® 65W LGA 1700 processors

Intel® 2.5GbE + Intel® 1GbE LAN

24/7 operations in 0-50°C environments
- Three independent displays via one HDMI 2.0b and two DisplayPort

4 x USB 3.2 Gen1 (including one Type-C), 4 x USB 2.0, 2 x RS232, 1 x M.2 2280 M Key (PCIe 3.0 x4/SATA), 1 x M.2 2230 E Key

DH32U^{SERIES}



1-Liter Edge AI Computing With Intel Tiger Lake Power

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



Feature

CPU options of 11th Gen Intel® Core™ i3-1115G4 / i5-1135G7 / i7-1165G7, Pentium® 7505

Built-in Intel® Iris® Xe graphics*

Four Native HDMI 2.0b for Quad displays

1 x M.2 2280 M key (PCIe Gen 4 x 4/SATA mode) for SSD, 1 x M.2 2230 E key for WIFI

Rich IO ports :
4 x USB 3.2 Gen2, 4 x USB 3.2 Gen1, 2 x RS232, 2 x Intel® Gigabit LAN

* Intel® Iris® Xe graphics for Core™ i5/i7 model only



DH670

Cooling system	Smart fan
Processor	Intel® 12 th Gen LGA1700 socket Core i3/i5/i7/i9, Pentium, Celeron 65W processor
Chipset	Intel® H670
Video Engine Processor	Intel® UHD Graphics series
Max Resolution	HDMI : 4096 x 2160@60Hz DisplayPort : 4096 x 2160@60Hz
Memory	2 x DDR4 3200/2933/2666 MHz, Max. 64GB
Storage	1 x 2.5" HDD/SSD (max. 12.5 mm) / 1 x SD card
Expansion Slot	1 x M.2 2280, M Key 1 x M.2 2230, E Key
HDMI Port	2
DisplayPort	2
VGA Port	Optional
USB 3.2 (Front)	Gen1 : 2(Include Type C x 1) / Gen2 : 2
USB 3.2 (Rear)	Gen1 : 2 / Gen2 : 2
USB 2.0 (Front)	-
USB 2.0 (Rear)	-
COM Port	1 x RS232 / 1 x RS232/422/485, Support 5V/12V
Line out/Mic in	1 / 1
Network	LAN : 2 x Intel® 1G LAN Wifi : Optional
VESA	Bracket included
Dimension	L : 190 x W: 165 x H : 43 mm
Weight	NW (kg) : 1.3 / GW (kg) : 2.05
Certification	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI
Operating Temperature	0~50
Chassis	Metal
Power Supply	19V/6.32A 120W external adapter
Operating System	Windows 10/11 64bit, Linux
Optional Accessories	WLN-M, PVG01, PS02, WWN03



DH610

Cooling system	Smart fan
Processor	Intel® 12 th Gen LGA1700 socket Core i3/i5/i7/i9, Pentium, Celeron 65W processor
Chipset	Intel® H610
Video Engine Processor	Intel® UHD Graphics series
Max Resolution	HDMI : 4096 x 2160@60Hz DisplayPort : 4096 x 2160@60Hz
Memory	2 x DDR4 3200/2933/2666 MHz, Max. 64GB
Storage	1 x 2.5" HDD/SSD (max. 12.5 mm)
Expansion Slot	1 x M.2 2280, M Key 1 x M.2 2230, E Key
HDMI Port	1
DisplayPort	2
VGA Port	Optional
USB 3.2 (Front)	Gen1 : 2(Include Type C x 1)
USB 3.2 (Rear)	Gen1 : 2
USB 2.0 (Front)	2
USB 2.0 (Rear)	2
COM Port	1 x RS232 / 1 x RS232/422/485, Support 5V/12V
Line out/Mic in	1 / 1
Network	LAN : 1 x Intel® 1G LAN / 1 x Intel® 2.5G LAN Wifi : Optional
VESA	Bracket included
Dimension	L : 190 x W : 165 x H : 43 mm
Weight	NW (kg) : 1.3 / GW (kg) : 2.05
Certification	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI
Operating Temperature	0~50
Chassis	Metal
Power Supply	19V/6.32A 120W external adapter
Operating System	Windows 10/11 64bit, Linux
Optional Accessories	WLN-M, PVG01, PS02, WWN03



DH610S

Cooling system	Smart fan
Processor	Intel® 12 th Gen LGA1700 socket Core i3/i5/i7/i9, Pentium, Celeron 65W processor
Chipset	Intel® H610
Video Engine Processor	Intel® UHD Graphics series
Max Resolution	HDMI : 4096 x 2160@60Hz DisplayPort : 4096 x 2160@60Hz
Memory	2 x DDR4 3200/2933/2666 MHz, Max. 64GB
Storage	1 x 2.5" HDD/SSD (max. 12.5 mm)
Expansion Slot	1 x M.2 2280, M Key 1 x M.2 2230, E Key
HDMI Port	1
DisplayPort	1
VGA Port	Optional
USB 3.2 (Front)	Gen1 : 2(Include Type C x 1)
USB 3.2 (Rear)	Gen1 : 2
USB 2.0 (Front)	2
USB 2.0 (Rear)	2
COM Port	-
Line out/Mic in	1 / 1
Network	LAN : 1 x Intel® 1G LAN Wifi : Optional
VESA	Optional
Dimension	L : 190 x W : 165 x H : 43 mm
Weight	NW (kg) : 1.3 / GW (kg) : 2.05
Certification	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI
Operating Temperature	0~50
Chassis	Metal
Power Supply	19V/6.32A 120W external adapter
Operating System	Windows 10/11 64bit, Linux
Optional Accessories	WLN-M, PVG01, PS02, WWN03, PV04



DH470

Cooling system	Smart fan
Processor	Intel® 10th Gen LGA1200 socket Core i3/i5/i7/i9, Pentium, Celeron 65W processor
Chipset	Intel® H470
Video Engine Processor	Intel® UHD Graphics series
Max Resolution	HDMI : 4096 x 2160@60Hz DisplayPort : 4096 x 2160@60Hz
Memory	2 x DDR4 2933/2666 MHz, Max. 64GB
Storage	1 x 2.5" HDD/SSD (max. 12.5 mm) / 1 x SD card(Optional)
Expansion Slot	1 x M.2 2280, M Key 1 x M.2 2230, E Key
HDMI Port	1
DisplayPort	2
VGA Port	Optional
USB 3.2 (Front)	Gen1 : 2(Include Type C x 1) / Gen2 : 2
USB 3.2 (Rear)	Gen1 : 2 / Gen2 : 2
USB 2.0 (Front)	-
USB 2.0 (Rear)	-
COM Port	1 x RS232 / 1 x RS232/422/485, Support 5V/12V
Line out/Mic in	1 / 1
Network	LAN : 2 x Intel® 1G LAN Wifi : Optional
VESA	Bracket included
Dimension	L : 190 x W : 165 x H : 43 mm
Weight	NW (kg) : 1.2 / GW (kg) : 2
Certification	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI
Operating Temperature	0~50
Chassis	Metal
Power Supply	19V/4.74A 90W external adapter
Operating System	Windows 10/11 64bit, Linux
Optional Accessories	WLN-M, PVG01, PS02, WWN03



DH410

Cooling system	Smart fan
Processor	Intel® 10th Gen LGA1200 socket Core i3/i5/i7/i9, Pentium, Celeron 65W processor
Chipset	Intel® H410
Video Engine Processor	Intel® UHD Graphics series
Max Resolution	HDMI : 4096 x 2160@60Hz DisplayPort : 4096 x 2160@60Hz
Memory	2 x DDR4 2933/2666 MHz, Max. 64GB
Storage	1 x 2.5" HDD/SSD (max. 12.5 mm) / 1 x SD card(Optional)
Expansion Slot	1 x M.2 2280, M Key 1 x M.2 2230, E Key
HDMI Port	1
DisplayPort	1
VGA Port	Optional
USB 3.2 (Front)	Gen1 : 2
USB 3.2 (Rear)	Gen1 : 2
USB 2.0 (Front)	2
USB 2.0 (Rear)	2
COM Port	1 x RS232 / 1 x RS232/422/485, Support 5V/12V
Line out/Mic in	1 / 1
Network	LAN : 2 x Intel® 1G LAN Wifi : Optional
VESA	Bracket included
Dimension	L : 190 x W : 165 x H : 43 mm
Weight	NW (kg) : 1.2 / GW (kg) : 2
Certification	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI
Operating Temperature	0~50
Chassis	Metal
Power Supply	19V/4.74A 90W external adapter
Operating System	Windows 10/11 64bit, Linux
Optional Accessories	WLN-M, PVG01, PS02, WWN03



DH410S

Cooling system	Smart fan
Processor	Intel® 10th Gen LGA1200 socket Core i3/i5/i7/i9, Pentium, Celeron 65W processor
Chipset	Intel® H410
Video Engine Processor	Intel® UHD Graphics series
Max Resolution	HDMI : 3840 x 2160@30Hz DisplayPort : 4096 x 2160@60Hz
Memory	2 x DDR4 2933/2666 MHz, Max. 64GB
Storage	1 x 2.5" HDD/SSD (max. 12.5 mm) / 1 x SD card(Optional)
Expansion Slot	1 x M.2 2280, M Key 1 x M.2 2230, E Key
HDMI Port	1
DisplayPort	1
VGA Port	Optional
USB 3.2 (Front)	Gen1 : 2
USB 3.2 (Rear)	Gen1 : 2
USB 2.0 (Front)	2
USB 2.0 (Rear)	2
COM Port	-
Line out/Mic in	1 / 1
Network	LAN : 1 x Realtek 1G LAN Wifi : Optional
VESA	Optional
Dimension	L : 190 x W : 165 x H : 43 mm
Weight	NW (kg) : 1.2 / GW (kg) : 2
Certification	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI
Operating Temperature	0~50
Chassis	Metal
Power Supply	19V/4.74A 90W external adapter
Operating System	Windows 10/11 64bit, Linux
Optional Accessories	WLN-M, PVG01, PS02, WWN03, PV04



DH32U^{SERIES}

Cooling system	Smart fan
Processor	Intel® Pentium® Gold 7505 or Intel® i3-1115G4/i5-1135G7/i7-1165G7
Chipset	Integrated in CPU
Video Engine Processor	Intel® UHD or Iris® Xe Graphics
Max Resolution	HDMI : 4096 x 2160@60Hz
Memory	2 x DDR4 3200/2933/2666 MHz, Max. 64GB
Storage	1 x 2.5" HDD/SSD (max. 12.5 mm) / 1 x SD card(Optional)
Expansion Slot	1 x M.2 2280, M Key 1 x M.2 2230, E Key
HDMI Port	4
DisplayPort	-
VGA Port	Optional
USB 3.2 (Front)	Gen2 : 4
USB 3.2 (Rear)	Gen1 : 4
USB 2.0 (Front)	-
USB 2.0 (Rear)	-
COM Port	1 x RS232 / 1 x RS232/422/485, Support 5V/12V
Line out/Mic in	1 / 1
Network	LAN : 2 x Intel® 1G LAN Wifi : Optional
VESA	Bracket included
Dimension	L : 190 x W : 165 x H : 43 mm
Weight	NW (kg) : 1.03 / GW (kg) : 2.2
Certification	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI
Operating Temperature	0~50
Chassis	Metal
Power Supply	19V/4.74A 90W external adapter
Operating System	Windows 10/11 64bit, Linux
Optional Accessories	WLN-M, PVG01, PS02, WWN03

XPC FANLESS

Fanless, Energy-Efficient, And Silent Operation

XPC fanless series features a passive thermal cooling system, which ensures heat dissipation efficiency under varying computing workloads while combining low power consumption and reliability. In addition, and in some verticle applications that run 24/7, the fanless design helps the system extend MTBF (mean time between failures) to minimize maintenance efforts and downtime costs.



Fanless



VESA



24/7



Watch Dog





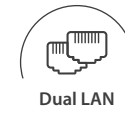
DS20U^{SERIES}

Fanless 1-liter PC

With Intel Comet Lake-U Processor

The DS20U series is a fanless PC powered by Intel® 10th Gen Comet Lake-U processor, which can handle short peak load and provide exceptional connectivity levels despite its portable size. With Intel® UHD Graphics integrated, the model can play 4K/UHD resolution video via HDMI 2.0a, DisplayPort 1.2, and VGA outputs.

Multi-application possibility includes USB 3.2 Gen2, USB 2.0, COM, and dual LAN to perform better computing demands for applications like digital signage, POS, Kiosk, thin client, and office PC. Thanks to its passive cooling architecture, the system is virtually maintenance-free and is approved for 24/7 nonstop operation.



Feature

CPU options of Intel® Core™ i3-10110U / i5-10210U / i7-10510U, Celeron® 5205U

Support optional WiFi AC+BT kit and 4G/LTE adapter kit

Dual Intel® Gigabit LAN

Triple-display productivity via HDMI 2.0a, DisplayPort 1.2, and VGA outputs

Great connectivity : 4 x USB3.2 Gen2(for Core i models), 4 x USB3.2 Gen1(for Celeron model), 4 x USB2.0, and 1 x RS232/422/485, 1 x M.2 2280 M Key, 1 x M.2 2230 E Key

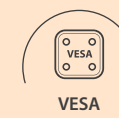


Best Budget Fanless Business PC

Energy-Saving And Robust Connectivity

The DL20N series is a low-power consumption PC powered by Intel® Jasper Lake processors. With Intel® UHD graphics and supports DDR4-2933 MHz memory, this model can promise reliable performance for multitasking and 4K/UHD resolution. Rich I/O interfaces such as USB3.2 Gen2, USB 2.0, and RS232 ports are equipped. Since the Internet is essential for the construction of IoT applications, the DL20N series supports one Ethernet up to 2.5GbE, providing 4G/LTE and WiFi 802.11ac expansion kit options. It is suitable for school, office, thin-client, IoT edge computing, digital signage, and more.

DL20N SERIES



Feature

CPU options of Intel® Pentium® Silver N6005, Celeron® N5105, Celeron® N4505

1 x Intel® Gigabit LAN

Support optional WiFi AC+BT kit and 4G/LTE adapter kit

Triple-display productivity via HDMI 2.0a, DisplayPort 1.2, and VGA outputs

Great connectivity : 2 x USB3.2 Gen2, 2 x USB3.2 Gen1, 2 x USB2.0, and 2 x RS232





DS20U^{SERIES}

Cooling system	Fanless
Processor	Intel® Celeron 5205U or Intel® i3-10110U/i5-10210U/i7-10510U
Chipset	Integrated in CPU
Video Engine Processor	Intel® UHD Graphics
Max Resolution	HDMI : 4096 x 2160@60Hz VGA : 1920 x 1080@60Hz DisplayPort : 4096 x 2160@60Hz
Memory	2 x DDR4 2666 / 2400 MHz, Max. 64GB
Storage	1 x 2.5" HDD/SSD (max. 12.5 mm) / 1 x SD card
Expansion Slot	1 x M.2 2280, M Key 1 x M.2 2230, E Key
HDMI Port	1
DisplayPort	1
VGA Port	1
USB 3.2 (Front)	Gen1 : 2 (for Celeron) / Gen2 : 2 (for Core i series)
USB 3.2 (Rear)	Gen1 : 2 (for Celeron) / Gen2 : 2 (for Core i series)
USB 2.0 (Front)	4
USB 2.0 (Rear)	-
COM Port	1 x RS232/422/485, Support 5V/12V
Line out/Mic in	1 / 1
Network	LAN : 2 x Intel® 1G LAN Wifi : Optional
VESA	Bracket included
Dimension	L : 200 x W : 165 x H : 39.5 mm
Weight	NW (kg) : 1.4 / GW (kg) : 2.1
Certification	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI
Operating Temperature	0~40
Chassis	Metal + Plastic
Power Supply	19V/3.42A 65W external adapter
Operating System	Windows 10/11 64bit, Linux
Optional Accessories	WWN03, WLN-M



DS10U^{SERIES}

Cooling system	Fanless
Processor	Intel® Celeron 4205U or Intel® i3-8145U/i5-8265U/i7-8565U
Chipset	Integrated in CPU
Video Engine Processor	Intel® UHD Graphics
Max Resolution	HDMI : 4096 x 2160@60Hz VGA : 1920 x 1080@60Hz DisplayPort : 4096 x 2160@60Hz
Memory	2 x DDR4 2400 / 2133 MHz, Max. 64GB
Storage	1 x 2.5" HDD/SSD (max. 12.5 mm) / 1 x SD card
Expansion Slot	1 x M.2 2280, M Key 1 x M.2 2230, E Key
HDMI Port	1
DisplayPort	1
VGA Port	1
USB 3.2 (Front)	Gen1 : 2 (for Celeron) / Gen2 : 2 (for Core i series)
USB 3.2 (Rear)	Gen1 : 2 (for Celeron) / Gen2 : 2 (for Core i series)
USB 2.0 (Front)	4
USB 2.0 (Rear)	-
COM Port	1 x RS232/422/485, Support 5V/12V
Line out/Mic in	1 / 1
Network	LAN : 2 x Intel® 1G LAN Wifi : Optional
VESA	Bracket included
Dimension	L : 200 x W : 165 x H : 39.5 mm
Weight	NW (kg) : 1.4 / GW (kg) : 2.1
Certification	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI
Operating Temperature	0~40
Chassis	Metal + Plastic
Power Supply	19V/3.42A 65W external adapter
Operating System	Windows 10/11 64bit, Linux
Optional Accessories	WWN03, WLN-M



DL20N^{SERIES}

Cooling system	Fanless
Processor	Intel® Celeron N4505 or Intel® Celeron N5105/Pentium N6005
Chipset	Integrated in CPU
Video Engine Processor	Intel® UHD Graphics
Max Resolution	HDMI : 4096 x 2160@60Hz VGA : 1920 x 1080@60Hz DisplayPort : 4096 x 2160@60Hz
Memory	2 x DDR4 2933 / 2666 MHz, Max. 16GB
Storage	1 x 2.5" HDD/SSD (max. 12.5 mm) / 1 x SD card
Expansion Slot	1 x M.2 2280, M Key 1 x M.2 2230, E Key
HDMI Port	1
DisplayPort	1
VGA Port	1
USB 3.2 (Front)	Gen2 : 2
USB 3.2 (Rear)	Gen1 : 2
USB 2.0 (Front)	-
USB 2.0 (Rear)	2
COM Port	1 x RS232 / 1 x RS232/422/485, Support 5V/12V
Line out/Mic in	1 / 1
Network	LAN : 1 x Intel® 1G LAN Wifi : Optional
VESA	Bracket included
Dimension	L : 190 x W : 165 x H : 43 mm
Weight	NW (kg) : 1.5 / GW (kg) : 2.07
Certification	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI
Operating Temperature	0~40
Chassis	Metal
Power Supply	19V/2.1A 40W external adapter
Operating System	Windows 10/11 64bit, Linux
Optional Accessories	PS02, WWN01, WWN03, WLN-M

Small Footprint, Palm-Sized Nano PC

The XPC nano series has only 14cm in width but is available in many different processor versions and is ready to maximize itself in every workplace. Rich I/O connectivity includes display productivity, high-speed storage interfaces, and peripherals.



XPC
NANO

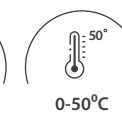
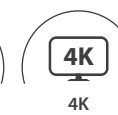
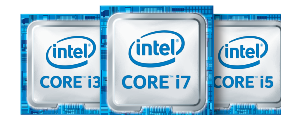


NC10U^{SERIES}



A Palm-Sized Versatile 4K Pc

The NC10U series is available with four different processors including Intel® Celeron® and Core™ i3/i5/i7. With just 42mm tall, the case of NC10U series can accommodate one 2.5" HDD (up to 15mm) to provide a flexible storage space. The NC10U offers a wealth of connectors and expansion slots with HDMI, DisplayPort, USB3.2 Gen 1, audio and M.2 interfaces included. The NC10U is also supplied with a card reader, WLAN, Gigabit Ethernet and even a serial interface. Works with high-resolution monitors, you can use this model as your home media center, office computer or a platform for basic digital signage applications.



Feature

4 processor SKUs for option - Intel® Core™ i7-8565U/ i5-8265U/ i3-8145U, Celeron® 4205U

Support dual independent displays

Support 4K UHD content playback

Support up to 15mm 2.5-inch Hard Drive

24/7 operations in 0-50°C environments

VESA mount ready

NC10U^{SERIES}

Processor	Intel® Celeron 4205U or Intel® i3-8145U/i5-8265U/i7-8565U	Network	LAN : 1 x Intel® 1G LAN Wifi : Realtek 8188EE 802.11 b/g/n
Video Engine Processor	Intel® UHD Graphics series	VESA	Bracket included
Max Resolution	HDMI : 4096 x 2160@60Hz DisplayPort : 4096 x 2160@60Hz	Stand	Bracket included
Memory	2 x DDR4 2400 / 2133 MHz, Max. 64GB	Dimension	L : 142 x W : 142 x H : 42 mm
Storage	1 x 2.5" HDD/SSD (max. 15 mm) / 1 x SD card	Weight	NW (kg) : 0.4 / GW (kg) : 1.2
Expansion Slot	1 x M.2 2280, M Key 1 x M.2 2230, E Key	Certification	CB, CE, BSMI, cTUVus, FCC, RCM, VCCI, RoHS, RED
HDMI Port	1	Operating Temperature	0~50
DisplayPort	1	Chassis	Plastic
USB 3.2 (Front)	Gen1 : 2 (Include Type C x 1)	Power Supply	19V/3.42A 65W external adapter
USB 2.0 (Rear)	2	Operating System	Windows 10/11 64bit, Linux
COM Port	1 x RS232		
Line out/Mic in	1(Combo)		



XPC AIO

-  Touch Screen
-  IP54
-  Fanless
-  VESA

Simply Touch, Easy Use All-In-One

XPC all-in-one series provides multiple-size options to meet any interactive applications. Thanks to a splash-proof and touch-sensitive screen, no need for any mouse or keyboard to operate. Ready to take on a massive task in only a device.



Fanless All-in-One PC Solution With 19.5" Multi-Touch Display

The P92U series is a 19.5" all-in-one PC with 10-point multi-touch functionality of capacitive type. It is equipped with an Intel® Core™ i3/i5/Celeron® processor, fanless cooling system, and 16:9 touch screen, making it ideal for digital out-of-home (DOOH) solution. It provides HDMI and VGA interface to connect with additional two displays. Thanks to its IP54-rated front panel, the system achieves high dust and splash-proof level. Passive cooling techniques allow the P92U to run 24/7 operation quietly and virtually maintenance-free.



Feature

- CPU options of Intel® Core™ i3-10110U / i5-10210U, Celeron® 5205U
- Include HDMI and VGA outputs for three displays
- 24/7 certified in 0-40°C environments
- 19.5" capacitive screen with 10-point multi-touch
- Excellent connectivity :**
4 x USB3.2 Gen1, 2 x USB2.0, SD card reader, Intel® Gigabit LAN and WiFi AC+BT 4.2

P92U SERIES



P52U SERIES



15.6" Multi-Touch All-in-One PC for POS, POI, And Kiosk

The 15.6" P52U series all-in-one PC combines a capacitive touchscreen offering accurate and precise 10-point touch response with a high-definition and 16:9 widescreen format LCD to create a multi-touch display that meets the most demanding interactive applications. It is equipped with the Intel® Comet Lake-U processor, which provides outstanding performance while achieving better energy efficiency. Built-in HDMI and VGA added the ability to connect two external displays. With passive cooling and the IP54 front panel, the P52U series runs exceptionally silent, robust, and stable for 24/7 operation.

Feature

- CPU options of Intel® Core™ i3-10110U / i5-10210U, Celeron® 5205U
- Include HDMI and VGA outputs for three displays
- 24/7 certified in 0-40°C environments
- 15.6" multi-touch screen with gloves support
- Excellent connectivity :** 4 x USB3.2 Gen1, 2 x USB2.0, SD card reader, and Intel® Gigabit LAN



P22U

Fanless 11.6" All-in-One POS Terminal PC

The P22U is an 11.6" all-in-one PC with multi-touch functionality of capacitive type powered by Intel® Comet Lake-U Celeron® 5205U dual-core processor for high-performance and better energy efficiency. It is designed for convenient connectivity, including 4 x USB 3.2 Gen1, 2 x USB 2.0, 2 x COM, Intel® Gigabit LAN, SD card reader, HDMI, and VGA. With the IP54 compliant front panel and completely fanless, the P22U is a very silent and stable machine for long-term operation. It is a perfect solution for point-of-sale applications and is connectable with other commercial devices for workplaces, like cafés, retail, and restaurant.

Feature

- | | | |
|---|--|---------------------------------------|
| Intel® Celeron® 5205U | 11.6" capacitive screen 10-point multi-touch | Support 12V DC/voltage input |
| Support triple display via HDMI and VGA | Optional COM/RJ11 expansion card | 24/7 certified in 0-40°C environments |



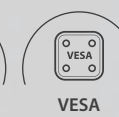


X50V8^{SERIES}



Fanless 15.6" All-in-One PC For POS, POI, Kiosk Applications

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



Feature

CPU options of Intel® Core™ i3-10110U, Celeron® 5205U

Optional expansion : RS232, Parallel, and RJ11 ports expansion cards

24/7 certified in 0-40°C environments

15.6" capacitive screen single-touch

Great Connectivity : 4 x USB3.2 Gen1, 2 x USB2.0, SD card reader, Webcam, Intel® Gigabit LAN and WiFi AC+BT 4.2

Triple display productivity via HDMI and VGA



P92U SERIES

Color	Black/White	
Screen	19.5" LCD (16:9, 1600 x 900) / Multi touch	
Processor	Intel® Celeron 5205U or Intel® i3-10110U/i5-10210U	
Video Engine Processor	Intel® UHD Graphics	
Max Resolution	HDMI : 3840 x 2160@30Hz VGA : 1920 x 1080@60Hz	
Memory	2 x DDR4 2666/2400 MHz, Max. 64GB	
Storage	1 x 2.5" HDD/SSD (max. 9.5 mm) / 1 x SD card	
Expansion Slot	1 x M.2 2280, M Key 1 x M.2 2230, E Key	
HDMI Port	1	
VGA Port	1	
USB 3.2 (Bottom)	Gen1 : 2	
USB 3.2 (Side)	Gen1 : 2	
USB 2.0 (Bottom)	2	
USB 2.0 (Side)	-	
COM Port	Optional	
Line out/Mic in	1 / 1	
Network	LAN : 1 x Intel® 1G LAN Wifi : Realtek 8821CE (802.11 a/b/g/n/ac) / Bluetooth 4.2	
Communication	Webcam : 2M FHD Microphone : Capacitor Speaker : 2 x 2W	
VESA	Support 100 x 100 mm	
Dimension	W : 487 x H : 321 x D : 44 mm	
Weight	NW (kg) : 4.29 / GW (kg) : 5.62	
Certification	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI, RED	
Operating Temperature	0~40	
Chassis	Front Panel IP54	
Power Supply	19V/3.42A 65W external adapter	
Operating System	Windows 10/11 64bit, Linux	
Optional Accessories	PCL71, POS01	



P90U SERIES

Color	Black/White	
Screen	19.5" LCD (16:9, 1600 x 900) / Multi touch	
Processor	Intel® Celeron 3865U or Intel® i3-7100U/i5-72100U	
Video Engine Processor	Intel® UHD Graphics	
Max Resolution	HDMI : 3840 x 2160@30Hz VGA : 1920 x 1080@60Hz	
Memory	2 x DDR4 2133 MHz, Max. 32GB	
Storage	1 x 2.5" HDD/SSD (max. 9.5 mm) / 1 x SD card	
Expansion Slot	1 x M.2 2280, M Key 1 x M.2 2230, E Key	
HDMI Port	1	
VGA Port	1	
USB 3.2 (Bottom)	Gen1 : 2	
USB 3.2 (Side)	-	
USB 2.0 (Bottom)	2	
USB 2.0 (Side)	2	
COM Port	Optional	
Line out/Mic in	1 / 1	
Network	LAN : 1 x Intel® 1G LAN Wifi : Realtek 8821CE (802.11 a/b/g/n/ac) / Bluetooth 4.2	
Communication	Webcam : 2M FHD Microphone : Capacitor Speaker : 2 x 2W	
VESA	Support 100 x 100 mm	
Dimension	W : 487 x H : 321 x D : 44 mm	
Weight	NW (kg) : 4.29 / GW (kg) : 5.62	
Certification	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI, RED	
Operating Temperature	0~40	
Chassis	Front Panel IP54	
Power Supply	19V/3.42A 65W external adapter	
Operating System	Windows 10/11 64bit, Linux	
Optional Accessories	PCL71, POS01, PNFC02	



P52U SERIES

Color	Black/White	
Screen	15.6" LCD (16:9, 1920 x 1080) / Multi touch	
Processor	Intel® Celeron 5205U or Intel® i3-10110U/i5-10210U	
Video Engine Processor	Intel® UHD Graphics	
Max Resolution	HDMI : 3840 x 2160@30Hz VGA : 1920 x 1080@60Hz	
Memory	2 x DDR4 2666/2400 MHz, Max. 64GB	
Storage	1 x 2.5" HDD/SSD (max. 9.5 mm) / 1 x SD card	
Expansion Slot	1 x M.2 2280, M Key 1 x M.2 2230, E Key	
HDMI Port	1	
VGA Port	1	
USB 3.2 (Bottom)	Gen1 : 2	
USB 3.2 (Side)	Gen1 : 2	
USB 2.0 (Bottom)	2	
USB 2.0 (Side)	-	
COM Port	2 x RS232 (Max. 4)	
Line out/Mic in	1 / 1	
Network	LAN : 1 x Intel® 1G LAN Wifi : Optional	
Communication	Webcam : 2M FHD Microphone : Capacitor Speaker : 2 x 2W	
VESA	Support 100 x 100 mm	
Dimension	W : 393.6 x H : 272.5 x D : 39.8 mm	
Weight	NW (kg) : 3.25 / GW (kg) : 4.5	
Certification	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI	
Operating Temperature	0~40	
Chassis	Front Panel IP54	
Power Supply	19V/3.42A 65W external adapter	
Operating System	Windows 10/11 64bit, Linux	
Optional Accessories	POS03	



P51U SERIES

Color	Black/White	
Screen	15.6" LCD (16:9, 1920 x 1080) / Multi touch	
Processor	Intel® Celeron 4205U or Intel® i3-8145U/i5-8265U	
Video Engine Processor	Intel® UHD Graphics	
Max Resolution	HDMI : 3840 x 2160@30Hz VGA : 1920 x 1080@60Hz	
Memory	2 x DDR4 2666/2400 MHz, Max. 64GB	
Storage	1 x 2.5" HDD/SSD (max. 9.5 mm) / 1 x SD card	
Expansion Slot	1 x M.2 2280, M Key 1 x M.2 2230, E Key	
HDMI Port	1	
VGA Port	1	
USB 3.2 (Bottom)	Gen1 : 2	
USB 3.2 (Side)	Gen1 : 2	
USB 2.0 (Bottom)	2	
USB 2.0 (Side)	-	
COM Port	2 x RS232 (Max. 4)	
Line out/Mic in	1 / 1	
Network	LAN : 1 x Intel® 1G LAN Wifi : Realtek 8821CE (802.11 a/b/g/n/ac) / Bluetooth 4.2	
Communication	Webcam : 2M FHD Microphone : Capacitor Speaker : 2 x 2W	
VESA	Support 100 x 100 mm	
Dimension	W : 393.6 x H : 272.5 x D : 39.8 mm	
Weight	NW (kg) : 3.25 / GW (kg) : 4.5	
Certification	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI, RED	
Operating Temperature	0~40	
Chassis	Front Panel IP54	
Power Supply	19V/3.42A 65W external adapter	
Operating System	Windows 10/11 64bit, Linux	
Optional Accessories	POS03, PNFC03	



P22U

Color	Black
Screen	11.6" LCD (16:9, 1366 x 768) / Multi touch
Processor	Intel® Celeron 5205U
Video Engine Processor	Intel® UHD Graphics
Max Resolution	HDMI : 3840 x 2160@30Hz VGA : 1920 x 1080@60Hz
Memory	2 x DDR4 2666/2400 MHz, Max. 64GB
Storage	1 x 2.5" HDD/SSD (max. 9.5 mm) / 1 x SD card
Expansion Slot	1 x M.2 2280, M Key 1 x M.2 2230, E Key
HDMI Port	1
VGA Port	1
USB 3.2 (Bottom)	Gen1 : 2
USB 3.2 (Side)	Gen1 : 2
USB 2.0 (Bottom)	2
USB 2.0 (Side)	-
COM Port	2 x RS232 (Max. 4)
Line out/Mic in	1 / 1
Network	LAN : 1 x Intel® 1G LAN Wifi : Optional
Communication	Webcam : 2M FHD Microphone : Capacitor Speaker : 1 x 2W
VESA	Support 100 x 100 mm
Dimension	W : 299 x H : 203 x D : 50 mm
Weight	NW (kg) : 2.47 / GW (kg) : 3.39
Certification	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI
Operating Temperature	0~40
Chassis	Front Panel IP54
Power Supply	19V/3.42A 65W external adapter
Operating System	Windows 10/11 64bit, Linux
Optional Accessories	POS02



P20U

Color	Black
Screen	11.6" LCD (16:9, 1366 x 768) / Multi touch
Processor	Intel® Celeron 3865U
Video Engine Processor	Intel® UHD Graphics
Max Resolution	HDMI : 3840 x 2160@30Hz VGA : 1920 x 1080@60Hz
Memory	2 x DDR4 2133 MHz, Max. 32GB
Storage	1 x 2.5" HDD/SSD (max. 9.5 mm) / 1 x SD card
Expansion Slot	1 x M.2 2280, M Key 1 x M.2 2230, E Key
HDMI Port	1
VGA Port	1
USB 3.2 (Bottom)	Gen1 : 2
USB 3.2 (Side)	-
USB 2.0 (Bottom)	2
USB 2.0 (Side)	2
COM Port	2 x RS232 (Max. 4)
Line out/Mic in	1 / 1
Network	LAN : 1 x Intel® 1G LAN Wifi : Realtek 8821AE/CE (802.11 a/b/g/n/ac) / Bluetooth 4.1/4.2
Communication	Webcam : 2M FHD Microphone : Capacitor Speaker : 1 x 2W
VESA	Support 100 x 100 mm
Dimension	W : 299 x H : 203 x D : 50 mm
Weight	NW (kg) : 2.47 / GW (kg) : 3.39
Certification	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI, RED
Operating Temperature	0~40
Chassis	Front Panel IP54
Power Supply	19V/3.42A 65W external adapter
Operating System	Windows 10/11 64bit, Linux
Optional Accessories	POS02, PMSR01, PMSR02, PNFC01



X50V8 SERIES

Color	Black/White
Screen	15.6" LCD (16:9, HD 1366 x 768) / Single touch
Processor	Intel® Celeron 5205U or Intel® i3-10110U
Video Engine Processor	Intel® UHD Graphics
Max Resolution	HDMI : 3840 x 2160@30Hz VGA : 1920 x 1080@60Hz
Memory	2 x DDR4 2666/2400 MHz, Max. 64GB
Storage	1 x 2.5" HDD/SSD (max. 9.5 mm) / 1 x SD card
Expansion Slot	1 x M.2 2280, M Key 1 x M.2 2230, E Key
HDMI Port	1
VGA Port	1
USB 3.2 (Bottom)	Gen1 : 2
USB 3.2 (Side)	Gen1 : 2
USB 2.0 (Bottom)	2
USB 2.0 (Side)	-
COM Port	Optional
Line out/Mic in	1 / 1
Network	LAN : 1 x Intel® 1G LAN Wifi : Realtek 8821CE (802.11 a/b/g/n/ac) / Bluetooth 4.2
Communication	Webcam : 2M FHD Microphone : Capacitor Speaker : 2 x 2W
VESA	Support 100 x 100 mm
Dimension	W : 391 x H : 327 x D : 42 mm
Weight	NW (kg) : 3.13 / GW (kg) : 4.16
Certification	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI, RED
Operating Temperature	0~40
Chassis	Front Panel IP54
Power Supply	19V/3.42A 65W external adapter
Operating System	Windows 10/11 64bit, Linux
Optional Accessories	PCL71,POS01



X50V7 SERIES

Color	Black/White
Screen	15.6" LCD (16:9, HD 1366 x 768) / Single touch
Processor	Intel® Celeron 4205U or Intel® i3-8145U
Video Engine Processor	Intel® UHD Graphics
Max Resolution	HDMI : 3840 x 2160@30Hz VGA : 1920 x 1080@60Hz
Memory	2 x DDR4 2666/2400 MHz, Max. 64GB
Storage	1 x 2.5" HDD/SSD (max. 9.5 mm) / 1 x SD card
Expansion Slot	1 x M.2 2280, M Key 1 x M.2 2230, E Key
HDMI Port	1
VGA Port	1
USB 3.2 (Bottom)	Gen1 : 2
USB 3.2 (Side)	Gen1 : 2
USB 2.0 (Bottom)	2
USB 2.0 (Side)	-
COM Port	Optional
Line out/Mic in	1 / 1
Network	LAN : 1 x Intel® 1G LAN Wifi : Realtek 8821CE (802.11 a/b/g/n/ac) / Bluetooth 4.2
Communication	Webcam : 2M FHD Microphone : Capacitor Speaker : 2 x 2W
VESA	Support 100 x 100 mm
Dimension	W : 391 x H : 327 x D : 42 mm
Weight	NW (kg) : 3.13 / GW (kg) : 4.16
Certification	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI, RED
Operating Temperature	0~40
Chassis	Front Panel IP54
Power Supply	19V/3.42A 65W external adapter
Operating System	Windows 10/11 64bit, Linux
Optional Accessories	PCL71,POS01

DIGITAL SIGNAGE



Arm-Based User-Friendly Digital Signage Solution

The digital signage solution effectively uses a powerful integrated ARM-based computing engine to reduce power consumption. In addition, pre-installed Shuttle digital signage software allows users to easily schedule and dispatch the digital signage content through their mobile devices.



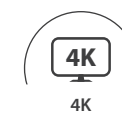


NS02 V2^{SERIES}



Fanless 0.5-Liter Android Pc

Shuttle NS02A V2/NS02E V2 is one of the most affordable models made for digital signage applications. The NS02 V2 series is equipped with Rockchip Octa-Core 1.5 GHz processor, built-in DDR3L 2GB low-voltage memory. It not only supports Full HD playback capability but also built-in HDMI 2.0 video output is able to support 4K Ultra HD at 60Hz. In addition, the NS02E V2 can support PoE (Power over Ethernet), allowing users easily to do on-site installation without any wire and AC adapter. The NS02 V2 series comes with pre-installed digital signage software that user can easily manage the signage content through their own mobile devices.



Feature

- Support 4K UHD playback via HDMI 2.0
- Built-in 2GB memory and 16GB eMMC
- Built-in Gigabit Ethernet with PoE (NS02E V2 only)
- Support 2.5" SATA HDD/SSD and SD card Reader
- WiFi 802.11 a/b/g/n/ac & Bluetooth 5.0
- Android 8.1

NS02A V2 / NS02E V2

Processor	Rockchip RK3368 Octa Core 1.5GHz (ARM Cortex-A53)	VESA	Bracket included
Max Resolution	HDMI : 3840 x 2160@60Hz	Dimension(mm)	L : 141 x W : 141 x H : 29 mm
Memory	2GB DDR3L onboard	Weight	NS02A V2 : NW (kg) : 0.27 / GW (kg) : 0.65 NS02E V2 : NW (kg) : 0.3 / GW (kg) : 0.52
Storage	16GB eMMC onboard / 1 x 2.5" HDD/SSD (max. 7 mm) 1 x SD card	Certification	CB, CE, BSMI, cTUVus, FCC, RCM, VCCI, R&TTE
HDMI Port	1 x HDMI 2.0	Operating Temperature	0~40
USB 2.0 (Front)	2	Chassis	Plastic
USB 2.0 (Rear)	2	Power Supply	NS02A V2 : 12V/2A 24W external adapter NS02E V2 : Support POE (PD), 802.3at
Line out/ Mic in Combo	1	Operating System	Android 8.1
Network	LAN : NS02A V2 : 1 x Realtek Gigabit LAN NS02E V2 : 1 x Realtek Gigabit LAN (Support PoE, 802.3at) Wifi : 802.11 a/b/g/n/ac / Bluetooth 5.0		

D230



Facial Recognition



Multimedia



Split Screen



5x Displays



24/7



Smart Shelf Signage With Facial Recognition For Retail Sector

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

Feature

23.1-inch bar-type shelf signage solution

Split screens for videos, pictures, and text demos separately and simultaneously

24/7 certified in 0-40°C environments

Detect the gender and age of users to play advertisement

Advanced power supply design to connect up to 5 devices

Android 7.0 / iOS 11 and upper version

D230

Processor	Six-core processor, 1.8GHz	Communication	Webcam : 2M FHD Speaker : 1 x 2W
Memory	2GB	VESA	100 x 100 mm, 75 x 75 mm, 50 x 50 mm
Storage	16GB eMMC	Dimension	L : 603 x W : 75 x H : 29 mm
Color	Black	Certification	CB, CE, ETL, FCC, VCCI, RCM, BSMI, RED
Screen	23.1" LCD (1920 x 158), 400nits	Operating Temperature	0~40
USB 2.0	1	Adapter	12V/2A 24W wall mount adapter / POE (optional)
SD card	1	Operating System	Android 7.1
USB 2.0 (Side)	2	Optional Accessories	PD230
RJ45	1	IP level	Front panel IP54 certified
Line out	1		
SIM card	1 (optional)		
Network	LAN : 10/100 Mbps Wifi : 802.11 a/b/g/n/ac 4G LTE : M.2 type (optional)		

ACCESSORY LIST

		XPC CUBE				XPC SLIM (3L)				XPC SLIM (1L)				XPC FANLESS			XPC NANO	XPC ALL-IN-ONE								DIGITAL SIGNAGE				
		SW580R8	SH570R8	SH570R6	SH510R4	XH610 S	XH510G2	XH510G	XH410G	DH670	DH610	DH610S	DH470	DH410	DH410S	DH32U S	DS20U S	DS10U S	DL20N S	NC10U S	P92U	P90U	P52U	P51U	P22U	P20U	X50V8	X50V7	NS02 S	
J-RS232	1x COM expansion																													J-RS232
PCL71	2x COM, 1x LPT expansion																					●	●					●	●	PCL71
PHD3	2.5" HDD/SSD expansion frame	●	●	●	●																									PHD3
PHD4	3.5" HDD expansion frame					●																								PHD4
PHD5	2.5" HDD expansion frame																												●	PHD5
PMSR01	Magnetic Stripe Swipe Reader without transaction function																										●			PMSR01
PMSR02	Magnetic Stripe Swipe Reader with transaction function																										●			PMSR02
PNFC01	NFC module																										●			PNFC01
PNFC03	NFC module																													PNFC03
POS01	4x COM, 1x LPT, 1x DIO expansion																					●	●					●	●	POS01
POS02	2x USB2.0, 1x RJ11, 4x COM (COM3 support RS232/422/485 0V,5V,12V) expansion																									●	●			POS02
POS03	2x USB2.0, 1x RJ11, 4x COM (COM3 support RS232/422/485 0V,5V,12V) expansion																							●	●					POS03
PS01	Vertical stand					●		●	●																					PS01
PS02	Vertical stand									●	●	●	●	●	●	●			●		●									PS02
PV02	VESA kit					●																								PV02
PV05	VESA kit																												●	PV05
PVG01	VGA adapter						●	●	●	●	●	●	●	●	●	●														PVG01
WLN-M	Wi-Fi expansion	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	WLN-M
WWN03	4G / LTE antenna set						●			●	●	●	●	●	●	●	●	●	●											WWN03