

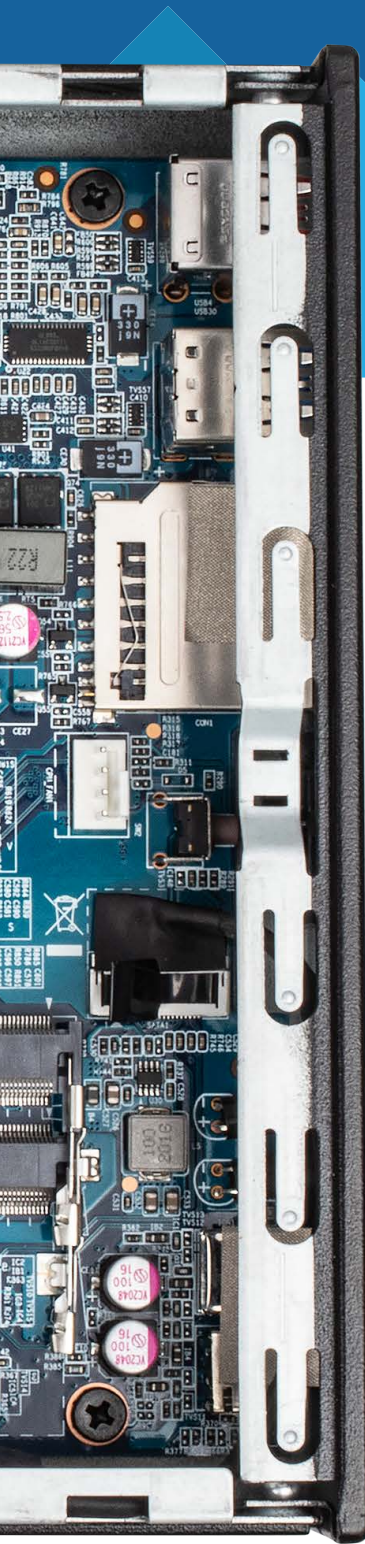


*Shuttle*<sup>®</sup>

Q1 2024

## KIOSK & SMART RETAIL PRODUCT GUIDE

Discover resilient, long-lasting, and trustworthy computing solutions designed to empower your future business. Our offerings span across diverse sectors, including factory automation, digital healthcare, smart retail, and IoT Edge applications.



# Company Profile

Since its inception in 1983, **Shuttle** has been a trailblazer in the development of compact commercial and industrial computers, establishing a robust foundation in the technology landscape. Our proud legacy is rooted in the seamless combination of innovation, design prowess, and the manufacturing of cutting-edge computer products.

Among our impressive lineup are mini PCs, all-in-one PCs, edge computing solutions, embedded computers, and industrial and medical-grade Panel PCs. These sophisticated products find extensive applications in various domains such as automation control, intelligent self-service kiosks, digital signage, IP monitoring edge computing, machine vision, VR/AR, and more. As a result, we've garnered acclaim across diverse industries, including manufacturing, hospitality, retail, healthcare, and business.

As technology evolves at an unprecedented pace, embracing advancements like artificial intelligence and the Internet of Things, Shuttle remains at the forefront. Our commitment to continuous improvement is evident

in the strengthening of our research and development capabilities and the enhancement of our system integration expertise. This strategic approach ensures that we offer a high-quality, diverse, and competitive product portfolio.

Our dedication goes beyond providing cutting-edge solutions; it extends to empowering our customers to triumph in their projects. By delivering efficiency, productivity, and effectiveness, we contribute to the success of businesses navigating the dynamic landscape of advanced technologies. At **Shuttle**, we envision a future where our innovations redefine the possibilities of computing, and we're driven to make that vision a reality.



Artificial Intelligence



Automation / HMI



Digital Signage



Edge Computing



Kiosk / Smart Retail

## Tech Innovations and Intergrated Solutions

Embark on a transformative journey with our comprehensive suite of solutions, seamlessly integrating cutting-edge technologies to elevate your business capabilities.

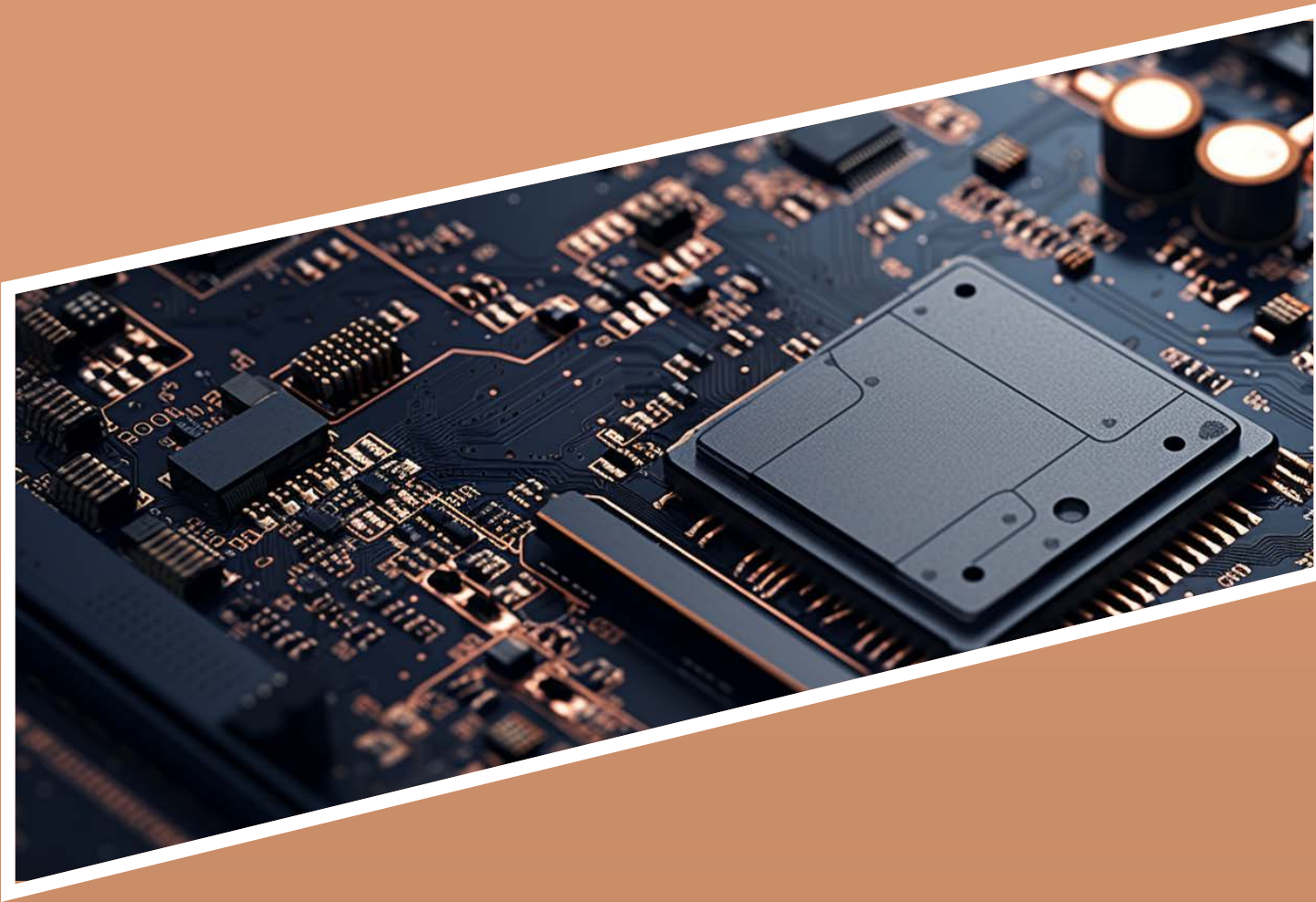
From interactive kiosk systems that redefine customer engagement to sophisticated Artificial Intelligence (AI) applications that augment decision-making processes, our offerings span a spectrum of innovative solutions.

Experience the future of automation and Human-Machine Interface (HMI) through our state-of-the-art solutions designed to optimize operations and enhance efficiency.

Our Industrial/Edge computing solutions form the backbone of your technological infrastructure, providing robust support for critical processes.

Navigate the digital landscape with confidence using our advanced digital signage solutions. Whether you're aiming to captivate audiences with dynamic displays or streamline information dissemination, our digital signage technologies offer versatility and impact.

This path of solutions isn't just a technological upgrade; it's a strategic investment in the future of your business. By seamlessly integrating kiosk, AI, automation/HMI, Industrial/Edge, and digital signage solutions, we empower you to stay ahead in a rapidly evolving digital era. Explore the possibilities, enhance your operational landscape, and pave the way for sustainable growth with our innovative suite of technologies.



# Kiosk / Smart Retail

Kiosks, multifunctional self-service machines in public spaces, serve diverse roles. From providing information and facilitating purchases to event bookings and check-ins, they extend to bill payments, healthcare services, navigation, surveys, photo printing, restaurant orders, and more. Streamlining processes, they enhance user convenience and reduce wait times.



# BPCEL02/ BPCEL03/BPCEL07

## Intel Elkhart Lake-Based Accelerate Your IoT Innovations with Powerful Computing

Shuttle BPCEL02/BPCEL03/BPCEL07 are powerful and versatile fanless embedded PCs designed with the Intel® Elkhart Lake platform, offering multiple processor options to meet different performance requirements. The series comes in a rich set of I/O and expansion interfaces, including dual Intel 2.5GbE, 4x USB 3.2 Gen 1, 4x USB 2.0, 3x RS232, M.2 2280 Type M, and M.2 2230 Type E. The modular design of this series allows for different I/O expansions and replacements to meet various customization needs. Moreover, the aluminum alloy housing design provides excellent heat dissipation and anti-interference capabilities, supporting a broad working temperature range of -30°C to +70°C. It is well-suited for several application fields, including industrial control, automation, IoT, edge computing, retail, and more.

### Features

- CPU options of Intel® Elkhart Lake Pentium® J6426/ Celeron® J6412/ Atom® x6425E
- Dual independent display via HDMI ( Support up to triple display through optional video output expansion kit )
- 4 x USB 3.2 Gen 1, 4 x USB 2.0, 3 x RS232, M.2 2280 Type M, and M.2 2230 Type E
- Dual Intel® 2.5G LAN supports Wake On LAN
- Dual DDR4 3200MHz memory, up to 32GB
- Multiple installation support : VESA, Ear Mount, DIN-rail

	BPCEL02	BPCEL03	BPCEL07
PROCESSOR	Pentium® J6426 Celeron® J6412 Atom® x6425E	Pentium® J6426 Celeron® J6412 Atom® x6425E	Atom® x6425E
OPERATING TEMPERATURE	0°C ~ 40°C	-20°C ~ 60°C	-30°C ~ 70°C
BUNDLED ADAPTER	19V/4.74A 90W external adapter	19V/7.89A 150W external adapter	19V/7.89A 150W external adapter



Wide Range  
Voltage Support  
( Optional )



Wide  
Temperature



Dual 2.5G LAN



Fanless

# DH670 / DH670 V2



## Compact 1-liter, Elite Performance, Future-Proof Agility

13<sup>th</sup> Gen Ready. AI-Enhancement and Four Displays

DH670 / DH670V2 supports Intel® Raptor Lake / 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 / DH670V2 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 13<sup>th</sup>/12<sup>th</sup> Gen Intel® Core™, Pentium®, Celeron® 65W LGA 1700 processors
- Four independent displays via two HDMI 2.0b and two DisplayPort
- DH670 V2** : Dual Intel® 2.5 Gigabit LAN  
**DH670** : Dual Intel® Gigabit LAN
- Support up to 64GB DDR4-3200 memory
- 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

## DH410



<b>Cooling system</b>	Smart fan
<b>Processor</b>	Intel® 10 <sup>th</sup> Gen LGA1200 socket Core i3/i5/i7/i9, Pentium, Celeron 65W processor
<b>Chipset</b>	Intel® H410
<b>Graphics</b>	Intel® UHD Graphics series
<b>Display Resolution Max.</b>	HDMI : 4096 x 2160@60Hz DisplayPort : 4096 x 2160@60Hz
<b>Display Output</b>	2 Independent Displays
<b>Video Decoder</b>	MPEG2, WMV9 / VC1, AVC / H.264, JPEG / MPEG, HEVC / H.265, VP8, VP9, AV1
<b>Memory</b>	2 x DDR4 2933/2666 MHz, Max. 64GB
<b>Storage</b>	1 x 2.5" HDD/SSD (max. 12.5 mm) / 1 x SD card(Optional)
<b>RAID</b>	-
<b>Expansion Slot</b>	1 x M.2 2280, M Key 1 x M.2 2230, E Key
<b>HDMI Port</b>	1
<b>DisplayPort</b>	1
<b>VGA Port</b>	Optional
<b>USB 3.2 (Front)</b>	Gen1 : 2
<b>USB 3.2 (Rear)</b>	Gen1 : 2
<b>USB 2.0 (Front)</b>	2
<b>USB 2.0 (Rear)</b>	2
<b>COM Port</b>	1 x RS232 / 1 x RS232/422/485, Support 5V/12V
<b>Line out / Mic in</b>	1 / 1
<b>Network</b>	LAN : 2 x Intel® 1G LAN WLAN: Optional
<b>VESA</b>	Bracket included
<b>Dimension</b>	L : 190 x W: 165 x H : 43 mm
<b>Weight</b>	NW (kg) : 1.2 / GW (kg) : 2
<b>Certification</b>	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI
<b>Operating Temperature(°C)</b>	0~50
<b>Chassis</b>	Metal
<b>Power Supply</b>	Power Input : 12V or 19V DC in Bundled Adapter : 19V/4.74A 90W external adapter
<b>Operating System</b>	Windows 10/11 64bit, Linux
<b>Optional Accessories</b>	WLN-M, PVG01, PS02, WWN03

## DH410S



<b>Cooling system</b>	Smart fan
<b>Processor</b>	Intel® 10 <sup>th</sup> Gen LGA1200 socket Core i3/i5/i7/i9, Pentium, Celeron 65W processor
<b>Chipset</b>	Intel® H410
<b>Graphics</b>	Intel® UHD Graphics series
<b>Display Resolution Max.</b>	HDMI : 3840 x 2160@30Hz DisplayPort : 4096 x 2160@60Hz
<b>Display Output</b>	2 Independent Displays
<b>Video Decoder</b>	MPEG2, WMV9 / VC1, AVC / H.264, JPEG / MPEG, HEVC / H.265, VP8, VP9, AV1
<b>Memory</b>	2 x DDR4 2933/2666 MHz, Max. 64GB
<b>Storage</b>	1 x 2.5" HDD/SSD (max. 12.5 mm) / 1 x SD card(Optional)
<b>RAID</b>	-
<b>Expansion Slot</b>	1 x M.2 2280, M Key 1 x M.2 2230, E Key
<b>HDMI Port</b>	1
<b>DisplayPort</b>	1
<b>VGA Port</b>	Optional
<b>USB 3.2 (Front)</b>	Gen1 : 2
<b>USB 3.2 (Rear)</b>	Gen1 : 2
<b>USB 2.0 (Front)</b>	2
<b>USB 2.0 (Rear)</b>	2
<b>COM Port</b>	-
<b>Line out / Mic in</b>	1 / 1
<b>Network</b>	LAN : 1 x Realtek 1G LAN WLAN: Optional
<b>VESA</b>	Optional
<b>Dimension</b>	L : 190 x W: 165 x H : 43 mm
<b>Weight</b>	NW (kg) : 1.2 / GW (kg) : 2
<b>Certification</b>	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI
<b>Operating Temperature(°C)</b>	0~50
<b>Chassis</b>	Metal
<b>Power Supply</b>	Power Input : 19V DC in Bundled Adapter : 19V/4.74A 90W external adapter
<b>Operating System</b>	Windows 10/11 64bit, Linux
<b>Optional Accessories</b>	WLN-M, PVG01, PS02, WWN03, PV04

## DH32U SERIES



<b>Cooling system</b>	Smart fan
<b>Processor</b>	Intel® Pentium® Gold 7505 or Intel® i3-1115G4/i5-1135G7/i7-1165G7
<b>Chipset</b>	Integrated in CPU
<b>Graphics</b>	Intel® UHD or Iris® Xe Graphics
<b>Display Resolution Max.</b>	HDMI : 4096 x 2160@60Hz
<b>Display Output</b>	4 Independent Displays
<b>Video Decoder</b>	MPEG2, WMV9, AVC / H.264, JPEG / MPEG, HEVC / H.265, VP9, AV1
<b>Memory</b>	2 x DDR4 3200/2933/2666 MHz, Max. 64GB
<b>Storage</b>	1 x 2.5" HDD/SSD (max. 12.5 mm) / 1 x SD card
<b>RAID</b>	-
<b>Expansion Slot</b>	1 x M.2 2280, M Key 1 x M.2 2230, E Key
<b>HDMI Port</b>	4
<b>DisplayPort</b>	-
<b>VGA Port</b>	Optional
<b>USB 3.2 (Front)</b>	Gen2 : 4
<b>USB 3.2 (Rear)</b>	Gen1 : 4
<b>USB 2.0 (Front)</b>	-
<b>USB 2.0 (Rear)</b>	-
<b>COM Port</b>	1 x RS232 / 1 x RS232/422/485, Support 5V/12V
<b>Line out / Mic in</b>	1 / 1
<b>Network</b>	LAN : 2 x Intel® 1G LAN WLAN: Optional
<b>VESA</b>	Bracket included
<b>Dimension</b>	L : 190 x W: 165 x H : 43 mm
<b>Weight</b>	NW (kg) : 1.03 / GW (kg) : 2.2
<b>Certification</b>	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI
<b>Operating Temperature(°C)</b>	0~50
<b>Chassis</b>	Metal
<b>Power Supply</b>	Power Input : 19V DC in Bundled Adapter : 19V/4.74A 90W external adapter
<b>Operating System</b>	Windows 10/11 64bit, Linux
<b>Optional Accessories</b>	WLN-M, PVG01, PS02, WWN03

## DH02U SERIES



<b>Cooling system</b>	Smart fan
<b>Processor</b>	Intel® Celeron 3865U or Intel® i3-7100U/i5-7200U/i7-7500U
<b>Chipset</b>	Integrated in CPU
<b>Graphics</b>	NVIDIA GeForce GTX 1050 GPU 4GB
<b>Display Resolution Max.</b>	HDMI : 4096 x 2160@60Hz 8192 x 4320@60Hz in Surround Mode
<b>Display Output</b>	4 Independent Displays
<b>Video Decoder</b>	MPEG, MPEG2, VC1, VP9, AVC / H.264, HEVC / H.265, AV1
<b>Memory</b>	2 x DDR4 2133 MHz, Max. 32GB
<b>Storage</b>	1 x 2.5" HDD/SSD (max. 12.5 mm)
<b>RAID</b>	-
<b>Expansion Slot</b>	1 x M.2 2280, M Key 1 x M.2 2230, E Key
<b>HDMI Port</b>	4 (HDMI 2.0)
<b>DisplayPort</b>	-
<b>VGA Port</b>	Optional
<b>USB 3.2 (Front)</b>	Gen1 : 2
<b>USB 3.2 (Rear)</b>	Gen1 : 2
<b>USB 2.0 (Front)</b>	2
<b>USB 2.0 (Rear)</b>	-
<b>COM Port</b>	1 x RS232
<b>Line out / Mic in</b>	1 / 1
<b>Network</b>	LAN : 1 x Intel® Gigabit LAN WLAN: Optional
<b>VESA</b>	Bracket included
<b>Dimension</b>	L : 190 x W: 165 x H : 43 mm
<b>Weight</b>	NW (kg) : 2.2 / GW (kg) : 3.5
<b>Certification</b>	CB, CE, BSMI, ETL, FCC, RCM, RoHS, VCCI
<b>Operating Temperature(°C)</b>	0~50
<b>Chassis</b>	Metal
<b>Power Supply</b>	Power Input : 19V DC in Bundled Adapter : 19V/6.32A 120W external adapter
<b>Operating System</b>	Windows 10 64bit, Linux
<b>Optional Accessories</b>	WLN-M, PS02



## DH670/DH670 V2

Cooling system	Smart fan
Processor	Intel® 13 <sup>th</sup> /12 <sup>th</sup> Gen LGA1700 socket Core i3/i5/i7/i9, Pentium, Celeron 65W processor
Chipset	Intel® H670
Graphics	Intel® UHD Graphics series
Display Resolution Max.	HDMI : 4096 x 2160@60Hz DisplayPort : 4096 x 2160@60Hz
Display Output	4 Independent Displays
Video Decoder	WMV9, AVC / H.264, JPEG / MPEG, HEVC / H.265, VP9, AV1
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 ( only DH670 )
RAID	0, 1
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 ( DH670 ) / 2 x Intel® 2.5G LAN ( DH670 V2 ) WLAN : 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 (°C)	0~50
Chassis	Metal
Power Supply	Power Input : 19V DC in Bundled Adapter : 19V/6.32A 120W external adapter
Operating System	Windows 10/11 64bit, Linux
Optional Accessories	WLN-M, PVG01, PS02, WWN03

\* BIOS v2.05 and up to version support Raptor Lake (13<sup>th</sup>) CPU



## DH610

Cooling system	Smart fan
Processor	Intel® 13 <sup>th</sup> /12 <sup>th</sup> Gen LGA1700 socket Core i3/i5/i7/i9, Pentium, Celeron 65W processor
Chipset	Intel® H610
Graphics	Intel® UHD Graphics series
Display Resolution Max.	HDMI : 4096 x 2160@60Hz DisplayPort : 4096 x 2160@60Hz
Display Output	3 Independent Displays
Video Decoder	WMV9, AVC / H.264, JPEG / MPEG, HEVC / H.265, VP9, AV1
Memory	2 x DDR4 3200/2933/2666 MHz, Max. 64GB
Storage	1 x 2.5" HDD/SSD (max. 12.5 mm)
RAID	-
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 WLAN : 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 (°C)	0~50
Chassis	Metal
Power Supply	Power Input : 12V or 19V DC in Bundled Adapter : 19V/6.32A 120W external adapter
Operating System	Windows 10/11 64bit, Linux
Optional Accessories	WLN-M, PVG01, PS02, WWN03

\* BIOS v2.02 and up to version support Raptor Lake (13<sup>th</sup>) CPU



## DH610S

Cooling system	Smart fan
Processor	Intel® 13 <sup>th</sup> /12 <sup>th</sup> Gen LGA1700 socket Core i3/i5/i7/i9, Pentium, Celeron 65W processor
Chipset	Intel® H610
Graphics	Intel® UHD Graphics series
Display Resolution Max.	HDMI : 4096 x 2160@60Hz DisplayPort : 4096 x 2160@60Hz
Display Output	2 Independent Displays
Video Decoder	WMV9, AVC / H.264, JPEG / MPEG, HEVC / H.265, VP9, AV1
Memory	2 x DDR4 3200/2933/2666 MHz, Max. 64GB
Storage	1 x 2.5" HDD/SSD (max. 12.5 mm)
RAID	-
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 WLAN: 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 (°C)	0~50
Chassis	Metal
Power Supply	Power Input : 19V DC in Bundled Adapter : 19V/6.32A 120W external adapter
Operating System	Windows 10/11 64bit, Linux
Optional Accessories	WLN-M, PVG01, PS02, WWN03, PV04

\* BIOS v2.01 and up to version support Raptor Lake (13<sup>th</sup>) CPU



## DH470

Cooling system	Smart fan
Processor	Intel® 10 <sup>th</sup> Gen LGA1200 socket Core i3/i5/i7/i9, Pentium, Celeron 65W processor
Chipset	Intel® H470
Graphics	Intel® UHD Graphics series
Display Resolution Max.	HDMI : 4096 x 2160@60Hz DisplayPort : 4096 x 2160@60Hz
Display Output	3 Independent Displays
Video Decoder	MPEG2, WMV9 / VC1, AVC / H.264, JPEG / MPEG, HEVC / H.265, VP8, VP9, AV1
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)
RAID	0, 1
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 WLAN: 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 (°C)	0~50
Chassis	Metal
Power Supply	Power Input : 19V DC in Bundled Adapter : 19V/4.74A 90W external adapter
Operating System	Windows 10/11 64bit, Linux
Optional Accessories	WLN-M, PVG01, PS02, WWN03



# DS50U<sup>SERIES</sup>

## Fanless Design With 5G/LTE Support Ready

Get Amplified Processing Power with 13<sup>th</sup>-Gen Raptor Lake-U

DS50U series is a 5G-supported fanless PC powered by Intel® 13<sup>th</sup> Gen Raptor Lake-U processor with Intel® Iris Xe graphics\* and support up to 64GB DDR5 5200 memory, providing robust multi-core processing and powerful AI workloads. Combined with rich I/Os as HDMI 2.0b, DisplayPort 1.4a, VGA, USB3.2 Gen2, USB3.2 Gen1, RS232, and dual LAN. In addition, with the feature of passive cooling architecture, the DS50U series is virtually maintenance-free and is approved for 24/7 nonstop operation. The DS50U can be integrated into various IoT applications, such as IoT gateways, smart digital signage, visual processing, robotic automation control, edge computing, interactive kiosks, and more.



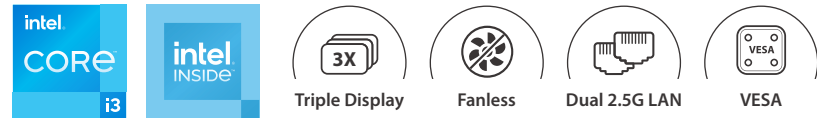
### Feature

- CPU options of Intel® Core™ i3-1315U/ i5-1335U/i7-1355U and Intel® processor U300
- Support optional WiFi AC+BT kit and 5G/LTE network extension kit
- 1 x Intel® 2.5G LAN + 1 x Intel® 1G LAN
- Triple-display productivity via HDMI 2.0b, DisplayPort 1.4a, and VGA outputs
- Great connectivity** : 2 x USB3.2 Gen2, 4 x USB3.2 Gen1, 2 x USB2.0, 1 x RS232, 2 x M.2 2280 M Key and 1 x M.2 2230 E Key

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



# DL30N SERIES



## Maximize IoT Capabilities With Reliable Fanless PC

12<sup>th</sup> Gen Processor, Dual 2.5G LAN, 4G/LTE Supports

The DL30N series is a fanless PC powered by Intel® Alder Lake-N series processors with DDR5 memory speeds up to 4800Hz. The integrated Intel® UHD graphics promise reliable performance for multitasking. Equipped with dual Intel® 2.5G LAN, it supports Wake On Lan. It is compatible with optional 802.11 AC WiFi and 4G/LTE adapter kit to enable excellent network applications. The device also features rich I/O interfaces, including HDMI 2.0b, DisplayPort 1.4a, VGA output, 8 x USB3.2 Gen1, and 2 x RS232, making it effortless to configure into various applications such as digital signage, POS/kiosk, IoT/edge, and more.



### Feature

- CPU options of Intel® i3-N300 or Intel® Processor N200/N100
- 24/7 certified in 0-40°C environments
- Support optional WiFi AC+BT kit and 4G/LTE adapter kit
- Triple-display productivity via HDMI 2.0b, DisplayPort 1.4a, and VGA outputs
- Great connectivity** : 2 x Intel® 2.5G LAN, 8 x USB3.2 Gen1 and 2 x RS232



## DS50U SERIES

Cooling system	Fanless
Processor	Intel® Processor U300 Intel® i3-1315U/i5-1335U/i7-1355U
Chipset	Integrated in CPU
Graphics	Intel® UHD or Iris® Xe Graphics
Display Resolution Max.	HDMI : 4096 x 2160@60Hz    VGA : 1920 x 1080@60Hz DisplayPort : 4096 x 2160@60Hz
Display Output	3 Independent Displays
Video Decoder	WMV9, AVC / H.264, JPEG / MPEG, HEVC / H.265, VP9, AV1
Memory	2 x DDR5 5200MHz Max. 64GB
Storage	1 x 2.5" HDD/SSD (max. 9.5 mm)
Expansion Slot	2 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 : 4 / Gen2 : 2
USB 3.2 (Rear)	-
USB 2.0 (Front)	-
USB 2.0 (Rear)	2
COM Port	1
Line out / Mic in	1 / 1
Network	LAN : 1 x Intel® 1G LAN + 1 x 2.5G LAN WLAN: Optional
VESA	Bracket included
Dimension	L : 200 x W: 165 x H : 39.5 mm
Weight	NW (kg) : TBD / GW (kg) : TBD
Certification	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI, UKCA
Operating Temperature (°C)	0~40
Chassis	Metal + Plastic
Power Supply	Power Input : 12V or 19V DC in Bundled Adapter : 19V/4.74A 90W external adapter
Operating System	Windows 11 64bit, Linux
Optional Accessories	WWN04, WLN-M



## DS20U/DS20U V2 SERIES

Cooling system	Fanless
Processor	Intel® Celeron 5205U or Intel® i3-10110U/i5-10210U/i7-10510U
Chipset	Integrated in CPU
Graphics	Intel® UHD Graphics
Display Resolution Max.	HDMI : 4096 x 2160@60Hz    VGA : 1920 x 1080@60Hz DisplayPort : 4096 x 2160@60Hz
Display Output	3 Independent Displays
Video Decoder	MPEG2, WMV9 / VC1, AVC / H.264, JPEG / MPEG, HEVC / H.265, VP8, VP9, AV1
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 ( DS20U series ) 1 x Intel® 1G LAN + 1 x 2.5G LAN ( DS20U V2 series ) WLAN : 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 (°C)	0~40
Chassis	Metal + Plastic
Power Supply	Power Input : 12V or 19V DC in Bundled Adapter : 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
Graphics	Intel® UHD Graphics
Display Resolution Max.	HDMI : 4096 x 2160@60Hz    VGA : 1920 x 1080@60Hz DisplayPort : 4096 x 2160@60Hz
Display Output	3 Independent Displays
Video Decoder	MPEG2, WMV9 / VC1, AVC / H.264, JPEG / MPEG, HEVC / H.265, VP8, VP9
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 WLAN: 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, RED
Operating Temperature (°C)	0~40
Chassis	Metal + Plastic
Power Supply	Power Input : 12V or 19V DC in Bundled Adapter : 19V/3.42A 65W external adapter
Operating System	Windows 10/11 64bit, Linux
Optional Accessories	WWN03, WLN-M



## DL30N SERIES

Cooling system	Fanless
Processor	Intel® i3-N300 or Intel® Processor N200/N100
Chipset	Integrated in CPU
Graphics	Intel® UHD Graphics
Display Resolution Max.	HDMI : 4096 x 2160@60Hz    VGA : 1920 x 1080@60Hz DisplayPort : 4096 x 2160@60Hz
Display Output	3 Independent Displays
Video Decoder	MPEG2, WMV9 / VC1, AVC / H.264, JPEG / MPEG, HEVC / H.265, VP9, AV1
Memory	1 x DDR5 4800MHz, Max. 16GB
Storage	1 x 2.5" HDD/SSD (max. 9.5mm)
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 : 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® 2.5G LAN WLAN: Optional
VESA	Bracket included
Dimension	L : 190 x W: 165 x H : 43 mm
Weight	NW (kg) : TBD / GW (kg) : TBD
Certification	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI, UKCA
Operating Temperature (°C)	0~40
Chassis	Metal
Power Supply	Power Input : 12V or 19V DC in Bundled Adapter : 19V/3.42A 65W external adapter
Operating System	Windows 11 64bit, Linux
Optional Accessories	PS02, WWN03, WLN-M



## DL20N/DL20N V2 SERIES

Cooling system	Fanless
Processor	Intel® Celeron N4505 or Intel® Celeron N5105/Pentium N6005
Chipset	Integrated in CPU
Graphics	Intel® UHD Graphics
Display Resolution Max.	HDMI : 4096 x 2160@60Hz    VGA : 1920 x 1080@60Hz DisplayPort : 4096 x 2160@60Hz
Display Output	3 Independent Displays
Video Decoder	MPEG2, WMV9 / VC1, H.264, JPEG / MPEG, HEVC / H.265, VP9
Memory	2 x DDR4 2933/2666 MHz, Max. 16GB
Storage	1 x 2.5" HDD/SSD (max. 9.5mm) / 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 ( DL20N series ) 1 x Intel® 2.5G LAN ( DL20N V2 series ) WLAN: 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 (°C)	0~40
Chassis	Metal
Power Supply	Power Input : 12V or 19V DC in Bundled Adapter : 19V/2.1A 40W external adapter
Operating System	Windows 10/11 64bit, Linux
Optional Accessories	PS02, WWN01, WWN03, WLN-M

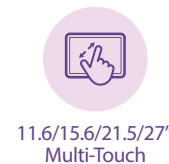
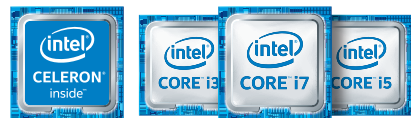
# K11WL02 , K15WL01 K21WL01 , K27WL04

## X86-Based Self-Service KIOSK

The kiosk is an advanced self-service terminal that seamlessly integrates hardware and software, offering businesses automation and efficiency. Powered by the Intel® 8<sup>th</sup> Gen Whiskey Lake processor and integrated Intel® UHD Graphics, this x86-based interactive kiosk is robust in computing, boasting four USB 3.2 Gen1, an RS232, and one Intel® Gigabit LAN. Its modular design is highly customizable and can support a wide range of peripherals such as 1D/2D scanners, thermal printers, NFC readers, IC card readers, payment devices, and webcams, tailored to meet specific business requirements like ticketing, check-in, guide maps, and other information services in entertainment and healthcare applications.

### Features

- Intel® Whiskey Lake-U/UE processors
- 11.6/15.6/21.5/27-inch 1080P FHD, PCAP 10-point multi-touch screen
- Sturdy and robust SECC metal enclosure
- Mounting supports : Counter mount (optional), Pole mount (optional), Wall mount
- Provide 4 x USB 3.2 Gen1, 1 x RS232, 1 x Intel® Gigabit LAN, and WiFi 802.11ac + Bluetooth 4.2
- Support a wide range of peripherals of 1D/2D scanner, thermal printer, NFC/RFID reader, IC card reader, a payment device, and webcam



K11RK02  
K15RK01  
K21RK01  
K27RK04



## ARM-Based Self-Service Kiosk

The ARM-based interactive self-service kiosks are designed with functionality in mind and are well-suited for delivering extensive self-service capability for desktop, counter, or wall mount deployment. Equipped with a Rockchip RK3368 Octa-Core processor, the kiosk provides eight USB 2.0, a Realtek Gigabit LAN, and WiFi 802.11 ac & Bluetooth 5.0. In addition, it can house a variety of peripherals of 1D/2D scanner, thermal printer, NFC/RFID reader, IC card reader, a payment device, and a webcam, customizing based on the functional requirements and service purposes to meet needs for ticketing, payments, check-in, queue management, guide map, information services, etc.



### Features

- Rockchip RK3368 Octa-core Cortex-A53 processor
- 11.6/15.6/21.5/27-inch 1080P FHD, PCAP 10-point multi-touch screen
- Customizable configurations to suit your brand and function
- Mounting supports : Counter mount (optional), Pole mount (optional), Wall mount
- Provide 8 x USB 2.0, Realtek Gigabit LAN, and WiFi 802.11ac + Bluetooth 5.0
- Support with customizable configurations: Thermometer, 1D/2D scanner, RFID/ NFC/IC card reader, thermal printer, webcam, and hand sanitizer dispenser

		K11WL02	K15WL01	K21WL01	K27 WL04	K11RK02	K15RK01	K21RK01	K27RK04
SYSTEM	Processor	Intel® Whiskey Lake-U platform, Core™ i7 -8565U / i5-8265UE / i3-8145UE / Celeron-4305UE				Rockchip RK3368 Octa-core 1.5GHz ( ARM Cortex-A53 )			
	Memory	2 x DDR4 2400 / 2666MHz, Max. 32GB				DDR3L 2GB			
SYSTEM	Storage	1 x 2.5" HDD / SSD SATA3.0 drive bay ( max. 7mm ) 1 x M.2 2280 B+M Key ( PCIe NVMe / SATA )				16GB eMMC onboard 1 x 2.5" HDD/SSD ( max. 7mm )			
	Graphics	Intel® UHD Graphics				-			
SYSTEM	Operation System	Windows 10 64bit / Linux 64bit				Android 8.1			
	LCD	11.6" LED	15.6" LED	21.5" LED	27.0" LED	11.6" LED	15.6" LED	21.5" LED	27.0" LED
DISPLAY AND TOUCH	Resolution	1366 x 768 (HD)	1920 x 1080 (Full HD)	1920 x 1080 (Full HD)	1920 x 1080 (Full HD)	1366 x 768 (HD)	1920 x 1080 (Full HD)	1920 x 1080 (Full HD)	1920 x 1080 (Full HD)
	Screen Position	Landscape	Landscape	Portrait	Portrait	Landscape	Landscape	Portrait	Portrait
DISPLAY AND TOUCH	Touch	True-Flat PCAP Multi Touch				True-Flat PCAP Multi Touch			
	Viewing Angle (H/V°)	45 (left), 45 (right), 20 (up), 40 (down)	85 (left), 85 (right), 85 (up), 85 (down)	89 (left), 89 (right), 89 (up), 89 (down)	89 (left), 89 (right), 89 (up), 89 (down)	45 (left), 45 (right), 20 (up), 40 (down)	85 (left), 85 (right), 85 (up), 85 (down)	89 (left), 89 (right), 89 (up), 89 (down)	89 (left), 89 (right), 89 (up), 89 (down)
DISPLAY AND TOUCH	Brightness	250 cd/m2	220 cd/m2	300 cd/m2	300 cd/m2	250 cd/m2	220 cd/m2	300 cd/m2	300 cd/m2
	Contrast	500 : 1	800 : 1	3000 : 1	3000 : 1	500 : 1	800 : 1	3000 : 1	3000 : 1
DISPLAY AND TOUCH	Backlight Lifetime	15,000hrs	15,000 hrs	30,000 hrs	30,000 hrs	15,000hrs	15,000 hrs	30,000 hrs	30,000 hrs
	Ethernet	1 x Intel® Gigabit LAN				1 x Realtek Gigabit LAN			
COMMUNICATION	Wireless	802.11a/b/g/n/ac + Bluetooth 5.0 with 2 external antenna				802.11b/g/n/ac + Bluetooth 5.0 with 2 external antenna			
	USB	4 x USB3.2 Gen1 ( Type A ), 2 x USB2.0 ( Type A )				8 x USB2.0 for USB Peripherals 1 x USB2.0 (OTG)			
I/O INTERFACE	Serial Port	1 x RS232 ( DB-9 )				-			
	Audio	2 x Internal 2W speaker				2 x Internal 2W speaker			
PERIPHERALS	Camera	2MP FHD camera				2MP FHD camera			
	IC Card Reader	Friction Type User Card PC / SC 1.0 Standard Approval CPU card and Memory card compliant				Friction Type User Card PC/SC 1.0 Standard Approval CPU card and Memory card compliant			
PERIPHERALS	NFC/RFID Reader	EM compatible 64 bits, A SK Manchester coding or Mifare: ISO14443A standard				EM compatible 64 bits, A SK Manchester coding or Mifare: ISO14443A standard			
	Scanner	1D / 2D barcode scanner				1D/2D barcode scanner			
PERIPHERALS	Printer	-	3" thermal printer w/auto cutter, 200mm/sec			-	3" thermal printer w/auto cutter, 200mm/sec		
	Adapter	19V / 4.74A 90W external adapter				19V / 4.74A 90W external adapter			
POWER	Mounting	Counte-mount ( Optional Stand ), Pole-mount ( Optional Stand ), Wall-mount				Counte-mount (Optional Stand), Pole-mount (Optional Stand), Wall-mount			
	Counter Mount	Dimension W/H/D	340 x 225 x 365 mm	435 x 315 x 472 mm	370 x 310 x 825 mm	470 x 370 x 893 mm	340 x 225 x 365 mm	435 x 315 x 472 mm	370 x 310 x 825 mm
MECHANISM	Weight	11Kg	22kg	35kg	36kg	11Kg	22kg	35kg	36kg
	Operating Temperature	0 ~ 35°C				0 ~ 35°C			
ENVIRONMENT	Storage Temperature	-20°C ~ 60°C				-20°C ~ 60°C			
	Relative Humidity	20% - 80% RH ( non-condensing )				20% - 80% RH ( non-condensing )			



# P21AL01/P21EL01

## 21.5" Multi-Touch Panel PC

Perfect for various Industrial and Commercial Applications

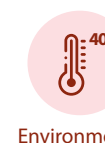
Shuttle's industrial-grade panel PCs come in a 21.5-inch size and offer multiple processor options suitable for IoT applications. The performance-oriented P21AL01 supports Intel® 12<sup>th</sup> Gen Alder Lake Core™ processors, supporting up to 64GB DDR5-4800 memory. Meanwhile, the P21EL01 offers CPU options of Intel® Elkhart Lake Atom®, Pentium®, and Celeron®, offering an excellent price-performance ratio. These panel PCs feature a rugged aluminum housing front bezel with IP65 dust and waterproof protection and a 10-point touch function. They offer four USB 3.2, three RS232, one HDMI, dual Intel® LAN, WiFi AC+Bluetooth 5.0, one M.2 2280 M key slot, and one SATA connector for flexible connectivity. These features make them ideal for industrial control, automation, and edge computing applications.



IP65



21.5" Multi-Touch



Environments 40°



Easy Swap Storage

### Features

- 21.5-inch 10-point capacitive multi-touch
- IP65 front panel waterproof protection
- 1 x HDMI 2.0, 4 x USB 3.2, 1 x RS232, 2 x RS232 /422 /485 [ RS232 with power supply : ring in/ 5V ( standard ) &12V ( with specific optional board ) ]
- Provide one swappable 2.5" SSD SATA drive bay
- Dual Intel® LAN and WiFi 802.11ac+BT 5.0

	P21AL01	P21EL01
<b>PROCESSOR</b>	Core™ i3-1215UE (default), i5-1235U, i5-1245UE, i7-1255U, i7-1265UE, Celeron® 7305E	Pentium® J6426 Atom® x6425E Celeron® J6412

		P21AL01	P21EL01	P21WL01
<b>SYSTEM</b>	Processor	12 <sup>th</sup> Gen. Intel® Alder Lake Core™ i3-1215UE (default) Optional : i5-1235U, i5-1245UE, i7-1255U, i7-1265UE, Celeron® 7305E	Intel® Elkhart Lake Celeron® J6412 (default) Optional : Pentium® J6426, Atom® x6425E	8 <sup>th</sup> Gen. Intel® Whiskey Lake Core™ i3-8145UE (default) Optional : i5-8265U, i5-8365UE, i7-8565U, i7-8665UE, Celeron® 4305UE
	Memory	2 x 262 pin SO-DIMM up to 64GB Dual Channel DDR5 4800MHz	2 x 260 pin SO-DIMM up to 32GB Dual Channel DDR4 3200MHz	2 x 260 pin SO-DIMM up to 64GB Dual Channel DDR4 2666MHz
	BIOS	AMI UEFI 64bit	AMI UEFI 64bit	AMI UEFI 64bit
<b>DISPLAY AND TOUCH SCREEN</b>	Display	21.5" 1920 x 1080 Full HD TFT LED with 10-Point Projected Capacitive Multi-Touch	21.5" 1920 x 1080 Full HD TFT LED with 10-Point Projected Capacitive Multi-Touch	21.5" 1920 x 1080 Full HD TFT LED with 10-Point Projected Capacitive Multi-Touch
	Viewing Angle (H/V°)	89 (left), 89 (right), 89 (up), 89 (down)	89 (left), 89 (right), 89 (up), 89 (down)	89 (left), 89 (right), 89 (up), 89 (down)
	Brightness	500 cd/m2	500 cd/m2	500 cd/m2
	Contrast	1000 : 1	1000 : 1	1000 : 1
	Backlight Lifetime	30,000 hrs	30,000 hrs	30,000 hrs
<b>GRAPHICS</b>	Chipset	Intel® UHD or Iris® Xe Graphics	Intel® UHD Graphics	Intel® UHD Graphics
	Display Interface	Supports two independent displays 1 x HDMI 2.0 : 4096 x 2160@60Hz 1 x DVI : 1920 x 1080@60Hz	Supports two independent displays 1 x HDMI 2.0 : 4096 x 2160@60Hz 1 x DVI : 1920 x 1080@60Hz	Supports two independent displays 1 x HDMI 1.4b : 4096 x 2160@30Hz 1 x DVI-I : 1920 x 1080@60Hz
	Video Decoder	WMV,AVC/ H264,JPEG/ MJPEG,HEVC/ H265,VP9,AV1	MPEG-2,WMV9 / VC1,H.264,JPEG/ MJPEG,H.265/ HEVC,VP8,VP9	MPEG-2,WMV9/ VC1,H.264,JPEG/ MJPEG,H.265/ HEVC,VP8,VP9
<b>STORAGE</b>	Internal	1 x M.2 2280 M key ( PCIe NVMe / SATA ) 1 x Swappable 2.5" SSD SATA 3.0 drive bay ( compatible 7mm )	1 x M.2 2280 M key ( PCIe NVMe / SATA ) 1 x Swappable 2.5" SSD SATA 3.0 drive bay ( compatible 7mm )	1 x M.2 2280 M key ( PCIe NVMe / SATA ) 1 x Swappable 2.5" SSD SATA 3.0 drive bay ( compatible 7mm )
	<b>AUDIO</b>	Audio Codec	Realtek ALC888S-VD 2-channel	Realtek ALC662/ALC888S 2-channel
<b>NETWORK</b>	Ethernet	2 x Intel® LAN / Support Wake On LAN	2 x Intel® 2.5 Gb LAN / Support Wake On LAN	2 x Intel® Gigabit LAN / Support Wake On LAN
	WLAN	Realtek RTL8821CE 802.11a/b/g/n/ac + Bluetooth 5.0 ( M.2 2230 E key ) with 2 internal antenna(default)/external antenna ( optional )	Realtek RTL8821CE 802.11a/b/g/n/ac + Bluetooth 5.0 ( M.2 2230 E key ) with 2 internal antenna(default)/external antenna ( optional )	Realtek RTL8821CE 802.11a/b/g/n/ac + Bluetooth 5.0 ( M.2 2230 E key ) with 2 internal antenna(default)/external antenna ( optional )
<b>I/O INTERFACE</b>	Serial Ports	1 x RS-232 ( DB-9 ) 2 x RS-232/422/485 ( DB-9 ) ( RS-232 with power supply : Ring in/ 5V ( standard ) &12V ( with specific optional board ))	1 x RS-232 ( DB-9 ) 2 x RS-232/422/485 ( DB-9 ) ( RS-232 with power supply : Ring in/ 5V ( standard ) &12V ( with specific optional board ))	1 x RS-232 ( DB-9 ) 2 x RS-232/422/485 ( DB-9 ) ( RS-232 with power supply : Ring in/ 5V ( standard ) &12V ( with specific optional board ))
	USB	4 x USB3.2 Gen 2 ( Type A )	4 x USB3.2 Gen 1 ( Type A )	4 x USB3.2 Gen 1 ( Type A )
	Audio	1 x Line-out / 1 x Mic-in	1 x Line-out / 1 x Mic-in	1 x Line-out / 1 x Mic-in
<b>POWER</b>	Bundled Adapter	19V/4.74A 90W external adapter	19V/4.74A 90W external adapter	19V/4.74A 90W external adapter
<b>WATCHDOG TIMER</b>	Watchdog	Support watchdog	Support watch dog	Support watchdog
<b>OS SUPPORT</b>	OS Support	Windows 11 64bit / Linux 64bit	Windows 11 64bit / Linux 64bit	Windows 10/11 64bit / Linux 64bit
<b>MECHANISM</b>	IP Rating	IP65 Front Panel Protection	IP65 Front Panel Protection	IP65 Front Panel Protection
	Mounting	VESA Mount 100 x 100 mm	VESA Mount 100 x 100 mm	VESA Mount 100 x 100 mm
	Dimension (W/H/D) mm	543 x 334 x 49.9	543 x 334 x 49.9	543 x 334 x 49.9
	Weight	7.6kg	7.6kg	7.6kg
<b>ENVIRONMENT</b>	Operating Temperature	0°C ~ 40°C	0°C ~ 40°C	0°C ~ 40°C
	Storage Temperature	-20°C ~ 60°C	-20°C ~ 60°C	-20°C ~ 60°C
	Relative Humidity	20% - 80% RH ( non-condensing )	20% - 80% RH ( non-condensing )	20% - 80% RH ( non-condensing )
	EMC	CE, FCC, VCCI, BSMI, UKCA	CE, FCC, VCCI, BSMI, UKCA	CE, FCC, VCCI, BSMI, UKCA
	Safety	CB, CEC, cTUVus, BSMI, EAC	CB, CEC, cTUVus, BSMI, EAC	CB, CEC, cTUVus, BSMI, EAC
	RF	US, EU, Taiwan	US, EU, Taiwan	US, EU, Taiwan



# P15AL01/P15EL01

## 15.6" Multi-Touch Panel PC

The Perfect HMI Replacement for Industrial Automation

Shuttle P15AL01/P15EL01 integrates a 15.6-inch FHD TFT LCD panel and features an IP65-certified front bezel panel. They feature Intel® Alder Lake and Elkhart Lake processors, which deliver outstanding performance, efficiency, and connectivity for a wide range of IoT applications. Rich I/O interfaces include USB 3.2, RS232, HDMI 2.0, M.2 2280 M key, Intel® LAN, and IEEE 802.11ac WiFi + Bluetooth 5.0. Moreover, the series offers customized I/O configurations to integrate with industrial production architecture. Equipped with high-performance computing capability, it is suitable for human-machine interface (HMI), process control, infotainment, and kiosk.



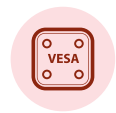
IP65



15.6" Multi-Touch



Fanless



Vesa Mount

### Features

- 15.6-inch 10-point capacitive multi-touch
- IP65 front panel waterproof protection
- 1 x HDMI 2.0, 4 x USB 3.2, 1 x RS232, 1 x M.2 2280 M key ( Supports PCIe x 4 / SATA storage interface )
- Network connectivity : Intel® LAN, WiFi 802.11 a/b/g/n/ac + Bluetooth 5.0
- Customized I/O options : DVI-I, VGA, RS232, USB 2.0, POAG, M.2 2280, wide voltage range board, external antenna, etc.

	P15AL01	P15EL01
<b>PROCESSOR</b>	Core™ i3-1215UE (default), i5-1235U, i5-1245UE, i7-1255U, i7-1265UE, Celeron® 7305E	Pentium® J6426 Atom® x6425E Celeron® J6412



		P15AL01	P15EL01	P15WL01
<b>SYSTEM</b>	Processor	12 <sup>th</sup> Gen. Intel® Alder Lake Core™ i3-1215UE ( default ) Optional : i5-1235U, i5-1245UE, i7-1255U, i7-1265UE, Celeron® 7305E	Intel® Elkhart Lake Celeron® J6412 (default) Optional : Pentium® J6426, Atom® x6425E	8 <sup>th</sup> Gen. Intel® Whiskey Lake Core™ i3-8145UE ( default ) Optional: i5-8265U, i5-8365UE, i7-8565U, i7-8665UE, Celeron® 4305UE
	Memory	2 x 262 pin SO-DIMM up to 64GB Dual Channel DDR5 4800MHz	2 x 260 pin SO-DIMM up to 32GB Dual Channel DDR4 3200MHz	2 x 260 pin SO-DIMM up to 64GB Dual Channel DDR4 2666MHz
	BIOS	AMI UEFI 64bit	AMI UEFI 64 bit	AMI UEFI 64bit
<b>DISPLAY AND TOUCH SCREEN</b>	Display	15.6” 1920 x 1080 Full HD LED with 10-Point Capacitive Multi-Touch	15.6” 1920 x 1080 Full HD LED with 10-Point Capacitive Multi-Touch	15.6” 1920 x 1080 Full HD LED with 10-Point Capacitive Multi-Touch
	Viewing Angle (H/V°)	85 (left), 85 (right), 85 (up), 85 (down)	85 (left), 85 (right), 85 (up), 85 (down)	85 (left), 85 (right), 85 (up), 85 (down)
	Brightness	450/350/250 cd/m2	450/350/250 cd/m2	450/350/250 cd/m2
<b>GRAPHICS</b>	Chipset	Intel® UHD or Iris® Xe Graphics	Intel® UHD Graphics	Intel® UHD Graphics
	Display Interface	Supports two independent displays 1 x HDMI 2.0 : 4096 x 2160@60Hz 1 x DVI-I ( optional daughter board ) 1 x VGA ( optional daughter board )	Supports two independent displays 1 x HDMI 2.0 : 4096 x 2160@60Hz 1 x DVI-I ( optional daughter board ) 1 x VGA ( optional daughter board )	Supports two independent displays 1 x HDMI 1.4b : 4096 x 2160@30Hz 1 x DVI-I ( optional daughter board ) 1 x VGA ( optional daughter board )
	Video Decoder	WMV,AVC/ H264,JPEG/ MJPEG,HEVC/ H265,VP9,AV1	MPEG-2,WMV9/ VC1,H.264,JPEG/ MJPEG,H.265/ HEVC,VP8,VP9	MPEG2, WMV9/ VC1, AVC/ H.264, JPEG/ MPEG, HEVC/ H.265, VP8, VP9
<b>STORAGE</b>	Internal	1 x M.2 2280 M key ( PCIe x4 or SATA, either one ) Optional : 1 x M.2 M 2280 SSD, SATA I/F, slidable design 1 x M.2 M 2280 SSD, SATA I/F, fixed design ( Either one of above )	1 x M.2 2280 M key ( PCIe x4 or SATA, either one ) Optional: 1 x M.2 M 2280 SSD, SATA I/F, slidable design 1 x M.2 M 2280 SSD, SATA I/F, fixed design ( Either one of above )	1 x M.2 2280 M key ( PCIe x4 or SATA, either one ) Optional : 1 x M.2 M 2280 SSD, SATA I/F, slidable design 1 x M.2 M 2280 SSD, SATA I/F, fixed design ( Either one of above )
		Audio Codec	Realtek ALC888S-VD 2-channel	Realtek ALC662/ALC888S 2-channel
<b>AUDIO</b>	Ethernet	1 x Intel® LAN / Support Wake On LAN	1 x Intel® 2.5 Gb LAN / Support Wake On LAN	1 x Intel® Gigabit LAN / Support Wake On LAN
	WLAN	Realtek RTL8821CE 802.11a/b/g/n/ac + Bluetooth 5.0 ( M.2 2230 E key ) with 2 internal antenna ( default )/external antenna ( optional )	Realtek RTL8821CE 802.11a/b/g/n/ac + Bluetooth 5.0 ( M.2 2230 E key ) with 2 internal antenna ( default )/external antenna ( optional )	Realtek RTL8821CE 802.11a/b/g/n/ac + Bluetooth 5.0 ( M.2 2230 E key ) with 2 internal antenna ( default )/external antenna ( optional )
<b>I/O INTERFACE</b>	Serial Ports	1 x RS-232 ( DB-9 ) 2 x RS-232/422/485 ( DB-9 ) ( RS-232 with power supply : Ring in/ 5V ( standard ) &12V ( with specific optional board ))	1 x RS-232 ( DB-9 ) 2 x RS-232/422/485 ( DB-9 ) ( RS-232 with power supply : Ring in/ 5V ( standard ) &12V ( with specific optional board ))	1 x RS-232 ( DB-9 ) 2 x RS-232/422/485 ( DB-9 ) ( RS-232 with power supply : Ring in/ 5V ( standard ) &12V ( with specific optional board ))
	USB	4 x USB3.2 Gen 2 ( Type A )	4 x USB3.2 Gen 1 ( Type A )	4 x USB3.2 Gen 1 ( Type A )
	Audio	1 x Line-out / 1 x Mic-in	1 x Line-out / 1 x Mic-in	1 x Line-out / 1 x Mic-in
<b>POWER</b>	Bundled Adapter	19V/4.74A 90W external adapter	19V/4.74A 90W external adapter	19V/4.74A 90W external adapter
<b>WATCHDOG TIMER</b>	Watchdog	Support watchdog	Support watch dog	Support watchdog
<b>OS SUPPORT</b>	OS Support	Windows 11 64bit / Linux 64bit	Windows 11 64bit / Linux 64bit	Windows 10/11 64bit / Linux 64bit
<b>MECHANISM</b>	IP Rating	IP65 Front Panel Protection	IP65 Front Panel Protection	IP65 Front Panel Protection
	Mounting	VESA Mount 100 x 100 mm	VESA Mount 100 x 100 mm	VESA Mount 100 x 100 mm
<b>ENVIRONMENT</b>	Dimension (W/H/D) mm	394 x 256 x 48.9	394 x 256 x 48.9	394 x 256 x 48.9
	Weight	4.6kg	4.6kg	4.6kg
	Operating Temperature	0°C ~ 40°C	0°C ~ 40°C	0°C ~ 40°C
Storage Temperature	-20°C ~ 60°C	-20°C ~ 60°C	-20°C ~ 60°C	
Relative Humidity	20% - 80% RH ( non-condensing )	20% - 80% RH ( non-condensing )	20% - 80% RH ( non-condensing )	
EMC	CE, FCC, VCCI, BSMI, UKCA	CE, FCC, VCCI, BSMI, UKCA	CE, FCC, VCCI, BSMI, UKCA	
Safety	CB, CEC, cTUVus, BSMI, EAC	CB, CEC, cTUVus, BSMI, EAC	CB, CEC, cTUVus, BSMI, EAC	
RF	EU, US, Taiwan	EU, US, Taiwan	EU, US, Taiwan	

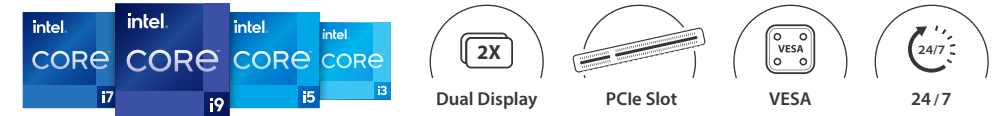


# Versatile 3-liter PC for Expanded Possibilities

## Single PCIe Slot for Multi-Application Expansion

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® 10<sup>th</sup>/ 11<sup>th</sup> 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

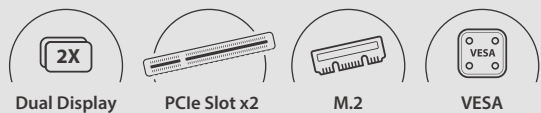


## Feature

- Support 10<sup>th</sup>/11<sup>th</sup> 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



# XH510G2



## Discover Dynamic Potential With The Flexible 4.75-liter PC

### Dual PCIe for Expansive Add-on Card Options

Equips with Intel® H510 chipset, Shuttte XPC slim XH510G2 supports 10<sup>th</sup>/11<sup>th</sup> 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 video walls, data modeling and analytics, surveillance, visualization projects, and a functional kiosk that requires port-intensive.



### Feature

- Support 10<sup>th</sup>/11<sup>th</sup> 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

\* PCIe card size Max 205 x 120 x 45mm



## XH610/XH610V

<b>Cooling system</b>	Smart fan
<b>Processor</b>	Intel® 13 <sup>th</sup> /12 <sup>th</sup> Gen LGA1700 socket Core i3/i5/i7/i9, Pentium, Celeron 65W processor
<b>Chipset</b>	Intel® H610
<b>Graphics</b>	Intel® UHD Graphics series
<b>Display Resolution Max.</b>	HDMI : 4096 x 2160@60Hz VGA : 1920 x 1080@60Hz DisplayPort : 4096 x 2160@60Hz
<b>Display Output</b>	3 Independent Displays
<b>Video Decoder</b>	WMV9, AVC / H.264, JPEG / MPEG, HEVC / H.265, VP9, AV1
<b>Memory</b>	2 x DDR4 3200/2933/2666 MHz, Max. 64GB
<b>Storage</b>	2 x 2.5" HDD/SSD + 1 x slim ODD or 3 x 2.5" HDD /SSD
<b>Expansion Slot</b>	1 x M.2 2280, M Key 1 x M.2 2230, E Key
<b>HDMI Port</b>	1
<b>DisplayPort</b>	1
<b>VGA Port</b>	1
<b>USB 3.2 (Front)</b>	Gen1 : 2
<b>USB 3.2 (Rear)</b>	Gen1 : 2
<b>USB 2.0 (Front)</b>	2
<b>USB 2.0 (Rear)</b>	2
<b>COM Port</b>	1 x RS232 (Max. 4) / 1 x RS232/422/485, Support 5V/12V
<b>Line in/Line out/Mic in</b>	1 / 2 / 2
<b>Network</b>	LAN : 1 x Intel® 1G LAN / 1 x Intel® 2.5G LAN WLAN: Optional
<b>VESA</b>	Optional (PV02)
<b>Dimension</b>	L : 241 x W: 200 x H : 72 mm
<b>Weight</b>	NW (kg) : 2.2 / GW (kg) : 3.5
<b>Certification</b>	CB, CE, BSMI, cTUVus, FCC, RCM, RoHS, VCCI
<b>Operating Temperature (°C)</b>	0~50
<b>Chassis</b>	Metal
<b>Power Supply</b>	Power Input : 12V or 19V DC in Bundled Adapter : 19V/6.32A 120W external adapter
<b>Operating System</b>	Windows 10/11 64bit, Linux
<b>Optional Accessories</b>	PS01, PV02, PHD4, WLN-M, PCM31

\* BIOS v2.03 and up to version support Raptor Lake (13<sup>th</sup>) CPU



## XH510G2

<b>Cooling system</b>	Smart fan
<b>Processor</b>	Intel® 11 <sup>th</sup> /10 <sup>th</sup> Gen LGA1200 socket Core i3/i5/i7/i9, Pentium, Celeron 65W processor
<b>Chipset</b>	Intel® H510
<b>Graphics</b>	Intel® UHD Graphics series
<b>Display Resolution Max.</b>	HDMI : 4096 x 2160@60Hz DisplayPort : 4096 x 2160@60Hz
<b>Display Output</b>	2 Independent Displays
<b>Video Decoder</b>	MPEG2, WMV9 / VC1, AVC / H.264, JPEG / MPEG, HEVC / H.265, VP8, VP9, AV1
<b>Memory</b>	2 x DDR4 3200/2933/2666 MHz, Max. 64GB
<b>Storage</b>	1 x 2.5" HDD/SSD (max. 9.5 mm)
<b>Expansion Slot</b>	2 x M.2 2280, M Key / 1 x M.2 2230, E Key 1 x PCIe Gen3 x 16 / 1 x PCIe Gen3 x 1 (PCIe card size Max 205 x 120 x 45mm)
<b>HDMI Port</b>	1
<b>DisplayPort</b>	1
<b>VGA Port</b>	Optional
<b>USB 3.2 (Front)</b>	Gen1 : 2
<b>USB 3.2 (Rear)</b>	Gen1 : 2
<b>USB 2.0 (Front)</b>	2
<b>USB 2.0 (Rear)</b>	2
<b>COM Port</b>	RS232 x 1 (Optional)
<b>Line in/Line out/Mic in</b>	- / 1 / 1
<b>Network</b>	LAN : 1 x Intel® 1G LAN WLAN: Optional
<b>VESA</b>	Bracket included
<b>Dimension</b>	L : 250 x W: 200 x H : 95 mm
<b>Weight</b>	NW (kg) : 2.98 / GW (kg) : 3.49
<b>Certification</b>	CB, CE, BSMI, cTUVus, FCC, RCM, VCCI, RoHS
<b>Operating Temperature (°C)</b>	0~50
<b>Chassis</b>	Metal
<b>Power Supply</b>	Power Input : 19V DC in Bundled Adapter : 19.5V/9.23A 180W external adapter
<b>Operating System</b>	Windows 10/11 64bit, Linux
<b>Optional Accessories</b>	PVG01, PRC01, WLN-M, WWN03

\* Graphics and PCIe specifications may vary depending on CPU support



## XH510G

<b>Cooling system</b>	Smart fan
<b>Processor</b>	Intel® 11 <sup>th</sup> /10 <sup>th</sup> Gen LGA1200 socket Core i3/i5/i7/i9, Pentium, Celeron 65W processor
<b>Chipset</b>	Intel® H5 10
<b>Graphics</b>	Intel® UHD Graphics series
<b>Display Resolution Max.</b>	HDMI : 4096 x 2160@60Hz DisplayPort : 4096 x 2160@60Hz
<b>Display Output</b>	2 Independent Displays
<b>Video Decoder</b>	MPEG2, WMV9 / VC1, AVC / H.264, JPEG / MPEG, HEVC / H.265, VP8, VP9, AV1
<b>Memory</b>	2 x DDR4 3200/2933/2666 MHz, Max. 64GB
<b>Storage</b>	1 x 2.5" HDD/SSD (max. 9.5 mm)
<b>Expansion Slot</b>	2 x M.2 2280, M Key / 1 x M.2 2230, E Key 1 x PCIe Gen3 x 16 (PCIe card size Max 208.5 x 120 x 30mm)
<b>HDMI Port</b>	1
<b>DisplayPort</b>	1
<b>VGA Port</b>	Optional
<b>USB 3.2 (Front)</b>	Gen1 : 2
<b>USB 3.2 (Rear)</b>	Gen1 : 2
<b>USB 2.0 (Front)</b>	2
<b>USB 2.0 (Rear)</b>	2
<b>COM Port</b>	RS232 x 1 (Optional)
<b>Line in/Line out/Mic in</b>	- / 1 / 1
<b>Network</b>	LAN : 1 x Intel® 1G LAN WLAN: Optional
<b>VESA</b>	Bracket included
<b>Dimension</b>	L : 250 x W: 200 x H : 78.5 mm
<b>Weight</b>	NW (kg) : 1.9 / GW (kg) : 3.2
<b>Certification</b>	CB, CE, BSMI, cTUVus, FCC, RCM, VCCI, RoHS
<b>Operating Temperature (°C)</b>	0~50
<b>Chassis</b>	Metal
<b>Power Supply</b>	Power Input : 19V DC in Bundled Adapter : 19.5V/9.23A 180W external adapter
<b>Operating System</b>	Windows 10/11 64bit, Linux
<b>Optional Accessories</b>	PVG01, WLN-M, PS01



## XH410G

<b>Cooling system</b>	Smart fan
<b>Processor</b>	Intel® 10 <sup>th</sup> Gen LGA1200 socket Core i3/i5/i7/i9, Pentium, Celeron 65W processor
<b>Chipset</b>	Intel® H410
<b>Graphics</b>	Intel® UHD Graphics series
<b>Display Resolution Max.</b>	HDMI : 4096 x 2160@60Hz VGA : 1920 x 1080@60Hz
<b>Display Output</b>	2 Independent Displays
<b>Video Decoder</b>	MPEG2, WMV9 / VC1, AVC / H.264, JPEG / MPEG, HEVC / H.265, VP8, VP9, AV1
<b>Memory</b>	2 x DDR4 2933/2666 MHz, Max. 64GB
<b>Storage</b>	1 x 2.5" HDD/SSD (max. 9.5 mm)
<b>Expansion Slot</b>	1 x M.2 2280, M Key / 1 x M.2 2230, E Key 1 x PCIe Gen3 x 16 (PCIe card size Max 208 x 120 x 30mm)
<b>HDMI Port</b>	1
<b>DisplayPort</b>	-
<b>VGA Port</b>	1
<b>USB 3.2 (Front)</b>	Gen1 : 2
<b>USB 3.2 (Rear)</b>	Gen1 : 2
<b>USB 2.0 (Front)</b>	2
<b>USB 2.0 (Rear)</b>	2
<b>COM Port</b>	RS232 x 1 (Optional)
<b>Line in/Line out/Mic in</b>	- / 1 / 1
<b>Network</b>	LAN : 1 x Intel® 1G LAN WLAN: Optional
<b>VESA</b>	Bracket included
<b>Dimension</b>	L : 250 x W: 200 x H : 78.5 mm
<b>Weight</b>	NW (kg) : 1.9 / GW (kg) : 3.2
<b>Certification</b>	CB, CE, BSMI, cTUVus, FCC, RCM, VCCI, RoHS
<b>Operating Temperature (°C)</b>	0~50
<b>Chassis</b>	Metal
<b>Power Supply</b>	Power Input : 19V DC in Bundled Adapter : 19.5V/9.23A 180W external adapter
<b>Operating System</b>	Windows 10/11 64bit, Linux
<b>Optional Accessories</b>	WLN-M, PS01



## XC60J

<b>Cooling system</b>	Fanless
<b>Processor</b>	Intel® Celeron J3355
<b>Chipset</b>	Integrated in CPU
<b>Graphics</b>	Intel® HD Graphics 500
<b>Display Resolution Max.</b>	HDMI : 3840 x 2160@30Hz VGA : 1920 x 1080@60Hz
<b>Display Output</b>	2 Independent Displays
<b>Video Decoder</b>	MPEG2, WMV9, VC1, H.264, JPEG / MPEG, MVC, HEVC / H.265, VP8, VP9
<b>Memory</b>	2 x DDR3L 1866 MHz, Max. 8GB
<b>Storage</b>	1 x 3.5" / 2.5" HDD/SSD
<b>Expansion Slot</b>	1 x M.2 2280, M Key 1 x M.2 2230, E Key
<b>HDMI Port</b>	1 x HDMI 1.4
<b>DisplayPort</b>	-
<b>VGA Port</b>	1
<b>USB 3.2 (Front)</b>	Gen1 : 2
<b>USB 3.2 (Rear)</b>	-
<b>USB 2.0 (Front)</b>	2
<b>USB 2.0 (Rear)</b>	2
<b>COM Port</b>	7 x RS232 / 1 x RS232/422/485, Support 5V/12V
<b>Line in/Line out/Mic in</b>	- / 1 / 1
<b>Network</b>	LAN : 1 x Intel® 1G LAN WLAN: Optional
<b>VESA</b>	Optional (PV02)
<b>Dimension</b>	L : 238 x W: 200 x H : 72 mm
<b>Weight</b>	NW (kg) : 2.2 / GW (kg) : 3.5
<b>Certification</b>	CB, CE, BSMI, ETL, FCC, RCM, VCCI, RoHS
<b>Operating Temperature (°C)</b>	0~40
<b>Chassis</b>	Metal
<b>Power Supply</b>	Power Input : 12V or 19V DC in Bundled Adapter : 19V/3.42A 65W external adapter
<b>Operating System</b>	Windows 10 64bit, Linux
<b>Optional Accessories</b>	WLN-M, PS01, PV02