NEXCOM
COMMITTED TO CUSTOMER SUCCESS

2021

Intelligent Platform & Services in Smart City Product Selection Guide

www.nexcom.com

(intel) | IOT Solutions Alliance

Creating
Smarter
Business

Smart Edge · Smart City

Enable the Digital Transformation
in Smart City

Smart Retail & Hospitality
- Digital Menu Board
- Indoor / Outdoor Signage
- Video Wall / IoT Dash board

Smart Service
- Self Check-In/Out System
- Interactive KIOSK System
- AI-Enabled System

Smart Entertainment
- Gaming / Casino
- Sports
- Hotel Facility

Smart Transportation
- Passenger/Flight Info Display System
- EV Charging System
- Surveillance

Smart Building
- Access Control
- Elevator Info System
- Visitor Sign-in System

Smart Gateway
- Agriculture / Farming
- IoT Gateway
- Energy Saving

Commerce & Education
- Interactive White board
- Video Conference Facility

ODM Service
- Medical devices
- POS devices
- Machine equipment

X Series

Drive Digital Transformation and Shape the **Future**

XPPC
Touch Computer

Neu-X
Edge Computing

AIEdge-X®
AI Edge Computer

Embedded Computing

Passenger Info Panel PC

X Series

The **X series** includes wide range of durable options, with the Embedded Computing for Equipment and Kiosks scenarios; Edge Computing System offering quiet yet powerful computer for in-door Equipment & Machines; Embedded Touch Computer perfectly suitable for self-service applications; Passenger Info Panel PC designed for in-bus digital signage. Last of all, the AI Edge computer compatible for all sorts of AI operations.

The X series contains the "X-factor" within the full product range which we aim to provide utmost satisfaction to our customers, offering a full-fledged selection for a smarter city.

X-Board
Embedded Computing

- Industrial Single Board Computer
- Standard 3.5" & miniITX
- Low Profile Design
- Suitable for Equipment & Kiosk applications

Neu-X
Edge Computing System

- Industrial Fanless Design
- Small Size, High Value
- Less maintenance cost
- Target in-door Equipment & Machines

XPPC
Touch Computer

- Industrial Fanless Panel PC
- Edge-to-Edge Slim design
- Easy Cleaning Surface
- Aim for Self-Service Machines

TPPC
Passenger Info Panel PC

- Public Info Display
- Communication Signage
- Built-in Ignition Design
- Perfect for In-the-Bus Sign board

AIEdge-X®
AI Edge Computer

- AI at the Edge Computing System
- Enabled by Intel® Movidius™ VPU
- Enabled by Google Coral Edge TPU
- Enabled by NVIDIA PCIex16 Graphic card

NDiS

Co-Creating Smarter Visual and Digital Solutions

NDiS Series

Be ready for your flexible selection of products to suit any kinds of retail and hospitality applications. The **NDiS series** will fulfill all your digital signage needs, whether it is wide temperature and slim chassis from B series, or the M series OPS modules and S series SDM modules compliant to intel specification and standards, and last but not least the value for money V series equipped with multiport of video outputs.

The **NDiS series** is able to deliver high video quality content vividly with reliable systems that will operate 24/7, allowing a splendid digital signage environment and dazzling user experience.

B Series
Industrial Visual Engine

- Outdoor/Wide-Temp Industrial Visual Display Engine
- Indoor/Slim type Industrial Visual Display Engine
- Support 5G Industrial Visual Computing Edge
- High performance in Slim & Compact design
- Choices with Intel x86 and ARM-based system

M Series
OPS Smart Display Computer

- Modularized Design, Plug-and-Play Solution
- Easy Installation and Upgrade with Ease
- Simplified Usage but Powerful Computing Engine
- Support 4k2k resolution
- Enterprise Interactive Display Computer

S Series
Smart Display Module PC

- Modularized Design, Slot-in Computer Solution
- Easy Installation, Upgrade and Maintenance
- Simple but Powerful Computing Engine
- Support large display 4K2K video out
- Easily Enable Retail, Signage and Education Application

V Series
Multi-Display Computing System

- Excellent graphics power
- Multiple 4k2k display outputs
- Support independent display content
- Value for Money performance

Digital Advertising

Information Display

NDiS V1000 Makes Digital Advertising Work Smarter

The concept of "working smarter" is especially appropriate in our fast-paced, rapidly changing world. So why not work smarter – and save yourself money, time, and space? NEXCOM recently collaborated with a digital marketing agency in need of a computer for smart city digital advertising, specifically in railway stations in Melbourne, Australia. This computer needed to support four independent 55" displays at full HD, be compact enough to fit in small spaces yet provide sufficient I/Os, and be high performance without requiring excessive energy or maintenance. NEXCOM quickly found the perfect solution for their requirements in a premium digital signage player, the NDiS V1000.

As the primary need was to quickly catch customers' attention, the NDiS V1000's four HDMI 2.0 ports and its AMD Ryzen™ Embedded V1605 CPU and Radeon™ Vega 8 GPU SoC brought quadruple displays with 4k-resolution images to life. The CPU was an especially incredible choice with its high performance at

a low price point. The GPU also provided outstanding graphics while generating less thermal power than other competitor solutions, thus saving on electricity costs. Moreover, the integrated SoC meant a more compact-sized player that could be easily embedded behind the four displays.

What's more, the NDiS V1000's simple and clean design, based on previous customer feedback, provided multiple benefits to the client. To reduce clutter, most I/Os were located on just one side. For flexible uses, as the client specifically needed to frequently update content and upload information to the control room – in tandem with having remote management capabilities – NEXCOM supplied a LAN port and Wi-Fi module. In addition, the digital signage player's fanless feature consumed less energy, made less noise, and required less maintenance. Finally, the NDiS V1000 was durable enough to operate in the railway station's semi-outdoor and 24/7 environment, solidifying its distinction as a first-rate, all-in-one choice.
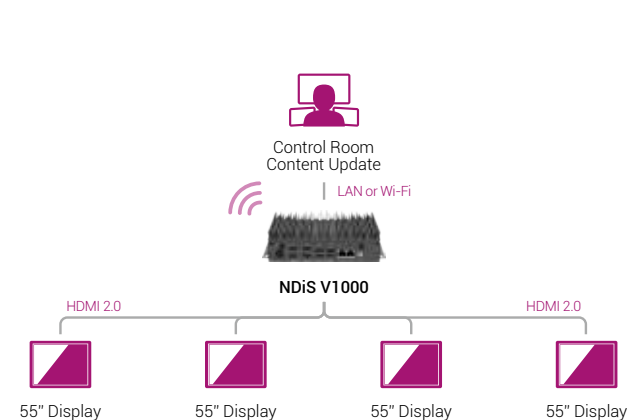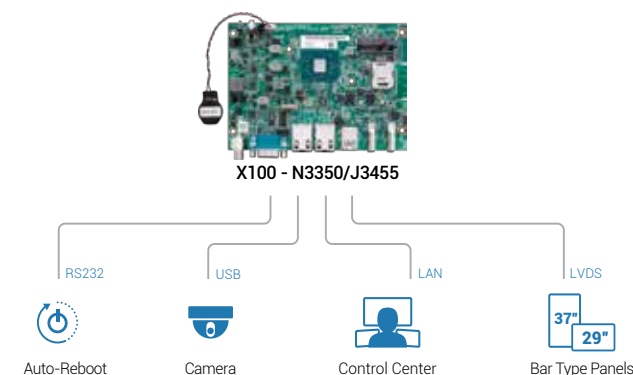
Transportation Display Versatility: All A-Board!

When picturing mass transport in the U.K. and Hong Kong, the ubiquitous double-decker bus first comes to mind. But with almost twice as many passengers as an ordinary bus, this means that system integrators need to utilize twice the amount of space to provide all passengers with pertinent information. NEXCOM's client needed an embedded board that was versatile enough for different types and sizes of passenger information and advertising displays in buses, yet adaptable for other modes of transportation, such as ferries. As multiple boards were required for each vehicle, they needed to be easily installed, power efficient, and cost effective.

NEXCOM recommended the X100-N3350 3.5" embedded board. Simple but powerful, and onboard with Intel® Celeron® N3350 processor, its price-performance ratio was best in its class to fulfill basic client requirements at a reasonable cost. It also satisfied the client's need to connect other peripheral devices.

The double-decker buses required a computer that was adaptable for various spatial requirements. Because the X100 was an embedded board, it was flexible and small enough to connect to different size and bar-type panels via LVDS for information displays. It also easily provided real-time bus stop information by linking to a central telematics computer through LAN. This also meant that signage was easily updated and customizable based on location.

The X100 avoided unexpected power loss, as the power jack utilized a lockable design. The watchdog timer connected via RS232 port and central power supply to automatically detect and recover from potential malfunctions. Additionally, in order to optimize operations and measure occupancy, the client utilized the multiple USB ports for cameras and their people counting function. Finally, E13 compliance offered assurance that the smart city embedded board was a safe and suitable for vehicular operations.

Control Room Content Update
| LAN or Wi-Fi

NDiS V1000

HDMI 2.0   HDMI 2.0

55" Display   55" Display   55" Display   55" Display

NDiS V1000

- Onboard AMD V1605B APU processor
- Graphics operating at up to 1.1 GHz
- Dual DDR4 SO-DIMM, up to 32G
- Support 4 x HDMI 2.0 for video wall application
- Support M.2 M Key, 2280/2242 size storage device
- 4 x USB 3.0 support
- M.2 E Key slot for optional Wi-Fi module
- 1 x Onboard TPM 2.0 IC

X100 - N3350/J3455

RS232   USB   LAN   LVDS

Auto-Reboot   Camera   Control Center   Bar Type Panels
                                                37" 29"

X100

- Onboard Intel® Celeron® N3350/J3455 processor
- Two display: 1x HDMI and LVDS
- 2 x RJ45 LAN with LED for Gigabit Ethernet
- 2 x USB 3.0, 2 x USB 2.0, Line-out
- Serial port: 1 x RS232, 1 x RS232/422/485 port
- E13 mark conformity

AI Enhancements Drive "SuperMarketing" in Asia

The development of the Internet of Things means that technology has found its way into every corner of our everyday lives. And for good reason: it's made our lives faster and easier! An Asia supermarket chain owner needed an economical way to better understand customer behavior and target its marketing. The client specifically required a stable, fanless system that could run video cameras 24/7 for analysis and dual displays for advertising.

Attention shoppers: pick up the AIEdge-X®100 today!

NEXCOM offered a comprehensive "AI precision marketing" system in the AIEdge-X®100, powered by Intel® Celeron™ CPU and Movidius™ Myriad™ X VPU (via NEXCOM AIBooster®-X2
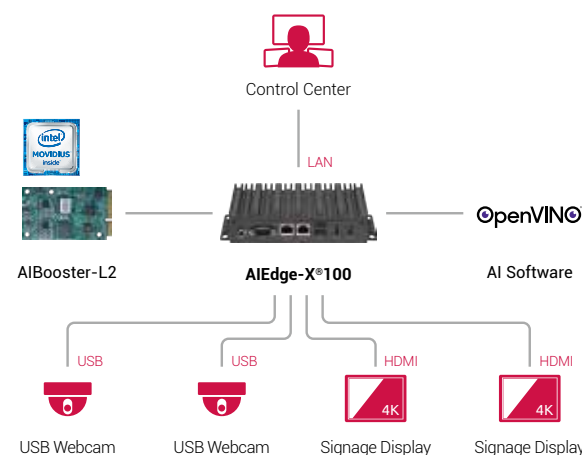

Figure 1. The AIEdge-X®100 AI precision marketing system.

module). The AI at the edge gateway also included Intel's OpenVINO™ AI and third-party 3D software for facial recognition analysis, two USB 3.0 ports to link cameras for video streaming shopping behavior, two HDMI 2.0 ports to connect dual displays, and a LAN port to send information to the edge and control center.

Out with the old, in with the new

Understanding the power of edge AI can unlock the possibilities of targeted marketing. The traditional, face-to-face marketing techniques many supermarkets utilize – often with free tastings – is great for a personal touch! But they don't particularly tune into customers' individual needs and instead increase the costs of demonstration table supplies and labor. NEXCOM's AIEdge-X®100 AI precision marketing system reduces those unnecessary costs as well as the guesswork of understanding customer needs.

"AI precision marketing" is the way

Our marketing solution observes shopper behavior and sends information to the edge to perform big data analysis. The results you obtain can be the catalyst for "AI precision marketing" and its multiple benefits, avoiding the presumptions that come with traditional marketing techniques. First, you control and target advertisements based on demographics and shopping patterns. For instance, you can differentiate and run promotions for the

typical office worker after 6 PM and stay-at-home parents during the day. Secondly, it promotes cost effectiveness: adjust purchasing patterns so that you don't waste or deplete stock. Finally, it simplifies marketing efforts and eliminates guesswork. Adjust event promotions, both face-to-face and paper-based, according to supply and demand forecasts.

The comprehensive, Intel-ligent system

With a high price-performance ratio, the AIEdge-X®100 is available for Windows and Linux and relies on state-of-the-art Intel® technology, a combination of CPU, GPU, and deep learning toolkit, to produce outstanding results. The AI at the edge fanless system uses a Celeron® processor, which delivers performance and value, on top of power efficiency. We include our AIBooster®-X2 deep learning accelerator card, which includes two Movidius™ Myriad™ X VPU chips, providing enough processing power to simultaneously operate two cameras for capturing shopping footage. Finally, the fanless gateway includes the OpenVINO toolkit to help you quickly facilitate inference of deep learning models. Combined with third-party 3D software, you're able to perform facial recognition to more effectively analyze customer demographics and behavior.

Structured information flow and design

The onboard USB 3.0 ports support cameras for video streaming shopping behavior to the AIEdge-X®100 gateway. The gateway then performs preliminary analysis with the aforementioned Intel® technology before sending information via LAN connection to central management at the edge. This is where management

can first determine purchasing habits by performing big data analysis of customer profiles, which then drives the design of targeted advertising. As central management controls systems and their content, advertising is transmitted back via LAN to display on two HDMI monitors that support 2K and 4K resolution images. The advantages of using display monitors is that they're automatic and can run 24/7, which in-person advertising can't achieve, saving you time and money over the long run.

We're here for you

NEXCOM's AIEdge-X®100 and its AI precision marketing system are an unparalleled combination of superior performance and advanced technology. The visual solution is the smart choice to eliminate the guessing game and focus instead on needs-based marketing, with the end goal of enhancing the shopper experience. In fulfilling its commitment to meet every customer specification, NEXCOM provides an assortment of AI-enhanced solutions in its lineup.

Neu-X100

Industrial Edge Computing System powered by Intel® Celeron® J3455 Processor

- On-board Intel® Celeron® N3350 / J3455 SoC processor (Formerly Apollo Lake)
- Dual HDMI Independent Display, 4096 x2160 @60Hz
- Support M.2 M-key storage device
- miniPCIe slot for optional WiFi or LTE module
- Dual GbE LAN & Wireless support
- Ambient Operating Temperature: -5°C to 50°C
- Fanless & Palm size for limited space

AIEdge-X® 100-VPU

AI at the Edge enhanced by Intel® Movidius ™ Myriad™ X

- On-board Intel® Celeron® J3455 SoC processor (Formerly Apollo Lake)
- Built-in Intel Movidius ™ Myriad ™ X Vision Processing Units
- Hardware Accelerator for deep neural network inference
- Supports both Windows and Linux
- High performance, better privacy, local data, work offline and power efficient
- Flexible to choose AIBooster®-X1 or AIBooster®-X2 for 1-chip or 2-chip solution

Neu-X101

Industrial Edge Computing System powered by Intel® Celeron® J3455 Processor

- On-board Intel® Celeron® J3455 SoC processor (Formerly Apollo Lake)
- Dual HDMI Independent Display, 3840 x2160 @30Hz
- 2 x USB3.0, 2 x USB2.0, 4 x GPIO
- Support M.2 M-key storage device
- miniPCIe slot for optional WiFi or LTE module
- Dual GbE LAN & Wireless support
- Ambient Operating Temperature: -5°C to 50°C
- Fanless & Palm size for limited space

AIEdge-X® 100-TPU

AI at the Edge powered Google's Coral Edge TPU

- On-board Intel® Celeron® J3455 SoC processor (Formerly Apollo Lake)
- Enabled with Google's Coral Edge TPU Intelligence module
- Low watts requirement with high AI processing capability
- Support Linux and Python
- High performance, better privacy, local data, work offline and power efficient

Neu-X300

Industrial Edge Computing System powered by Intel® 8th Gen. Core™ processor

- Support 8th Gen Intel® Core™ Socket Processor, 35W Max. (Formerly Coffee Lake)
- Dual DDR4 SO-DIMM up to 32G
- 3x HDMI 2.0 resolution 4K@60Hz
- Support M.2 M-Key 2280 SATA storage device
- Support Intel® AMT technology and TPM2.0
- Ambient Operating temperature: -5°C to 45°C
- Compact & Fanless design

AIEdge-X® 537-VPU

AI at the Edge enhanced by Intel® Movidius ™ Myriad™ X

- Support 7th Gen Intel® Core™ socket Processor up to 35W (formerly Kaby Lake)
- Built-in Intel Movidius ™ Myriad ™ X Vision Processing Units
- Hardware Accelerator for deep neural network inference
- Supports both Windows and Linux
- High performance, better privacy, local data, work offline and power efficient
- Flexible to choose AIBooster®-X1 or AIBooster®-X2 for 1-chip or 2-chip solution

Neu-X302

Industrial Edge Computing System powered by 8th/9th Generation Intel® Core™ Processor

- Support 8th/9th Intel® Core™ socket type processor, 35W Max. (Formerly Coffee Lake)
- Dual Channel DDR4 SO-DIMM, 32GB max.
- 1x VGA and 1x HDMI1.4 4K Display Output
- Dual Intel® LAN ports
- Total 6x COM port, 10x USB, Mic-in / Line-out
- Optional TPM2.0 for security advantage
- On-board M.2 B-key/E-key for storage & wireless or LTE connection
- Ambient Operating temperature: -5°C to 45°C

AIEdge-X® 537-TPU

AI at the Edge powered Google's Coral Edge TPU

- Support 7th Gen Intel® Core™ socket Processor up to 35W (formerly Kaby Lake)
- Enabled with Google's Coral Edge TPU Intelligence module
- Low watts requirement with high AI processing capability
- Support Linux and Python
- High performance, better privacy, local data, work offline and power efficient

AIEdge-X® 300

AI at the Edge Driven by PCIex16 Graphics Card

- 8th/9th Gen Intel® Core™ socket type processor up to 65W
- Dual DDR4 SO-DIMM 2400/2666MHz, up to 32G
- Two slot space for optional PCIex16 NVIDIA® GeForce Graphics Card
- On-board 3x HDMI 2.0 resolution 4K@60Hz
- Support 1x 2.5" SSD and M.2 M/B Key, 2280/2242 size storage device
- 4x USB 3.0, 2x Intel® GbE LAN ports, 1 x RS232/422/485, 1 x RS232
- Supports PCIex16 Graphics Card up to 160W (NVIDIA® GeForce® RTX 2060)
- 500W Power Supply

AIEdge-X® 500

- **AI at the Edge Equipped with Multi-expansion and Storages for AI Inference System**
- 8/9th Gen Intel® Core™ socket processor up to 65W
- Dual DDR4 SO-DIMM 2400/2666MHz, up to 32G
- Support 4 x 2.5" hot-swapped HDD/SSD for maximum storage
- Support M.2 M Key, 2280 size storage device
- 2 x USB 3.0, 1 x USB 2.0, 2 x Intel® GbE LAN ports, 1 x HDMI2.0 (4K/2K@60Hz)
- Supports PCIex16 Graphics Card equivalent to NVIDIA® GeForce® RTX 3090
- 800W Power supply

XPPC 10-100

10.1" Slim Touch Computer powered by Intel® Celeron® J3455 Processor

- 10.1" 16:10 1280x800 TFT WXGA Panel 400 nits
- XPPC PCAP 10-points touch 360 nits
- Anti-Smudge Coating on Touch Glass for easy cleaning
- 1x DDR3L SO-DIMM, 8GB max. , M.2 M-key 2242 for storage device
- 1x HDMI 2.0, 2x USB 3.0, 2x Intel® GbE LAN, 1 x RS232/422/485
- IP65 protection on the front with Slim Bezel design
- Mounting Option: VESA, Panel (Optional), Open frame(Optional)
- 19V DC, 45W Adapter included

XPPC 10-100-Ag+

10.1" Slim Touch Computer powered by Intel® Celeron® J3455 Processor

- 10.1" 16:10 1280x800 TFT WXGA Panel 400 nits
- XPPC PCAP 10-points touch 360 nits
- Antimicrobial Corning® Gorilla® Glass
- Anti-Smudge Coating on Touch Glass for easy cleaning
- 1x DDR3L SO-DIMM, 8GB max. , M.2 M-key 2242 for storage device
- 1x HDMI 2.0, 2x USB 3.0, 2x Intel® GbE LAN, 1 x RS232/422/485
- IP65 protection on the front with Slim Bezel design
- 19V DC, 45W AC/DC Power Adatper included

XPPC 16-100

- **15.6" Slim Touch Computer powered by Intel® Celeron® J3455 Processor**
- 15.6" 16:9 1366x768 TFT WXGA Panel 500nits
- XPPC PCAP 10-points touch 450 nits
- Anti-Smudge Coating on Touch Glass for easy cleaning
- 1x DDR3L SO-DIMM, 8GB max. , M.2 M-key 2242 for storage device
- 1x HDMI 2.0, 2x USB 3.0, 2x Intel® GbE LAN, 1 x RS232/422/485
- IP65 protection on the front with Slim Bezel design
- Mounting Option: VESA, Panel (Optional), Open frame(Optional)
- 19V DC, 90W Adapter included

XPPC 22-100

21.5" Slim Touch Computer powered by Intel® Celeron® J3455 Processor

- 21.5" 16:9 1920x1080 TFT WXGA Panel 250nits
- XPPC PCAP 10-points touch 225nits
- Anti-Smudge Coating on Touch Glass for easy cleaning
- 1x DDR3L SO-DIMM, 8GB max. , M.2 M-key 2242 for storage device
- 1x HDMI 2.0, 2x USB 3.0, 2x Intel® GbE LAN, 1 x RS232/422/485
- IP65 protection on the front with Slim Bezel design
- Mounting Option: VESA, Panel (Optional), Open frame(Optional)
- 19V DC, 90W Adapter included

XPPC 24-100

- **23.8" Slim Touch Computer powered by Intel® Celeron® J3455 Processor**
- 23.8" 16:9 1920x1080 TFT WXGA Panel 350nits
- XPPC PCAP 10-points touch 315nits
- Anti-Smudge Coating on Touch Glass for easy cleaning
- 1x DDR3L SO-DIMM, 8GB max. , M.2 M-key 2242 for storage device
- 1x HDMI 2.0, 2x USB 3.0, 2x Intel® GbE LAN, 1 x RS232/422/485
- IP65 protection on the front with Slim Bezel design
- Mounting Option: VESA, Panel (Optional), Open frame(Optional)
- 19V DC, 90W Adapter included

NDiS B116

Industrial Visual Engine powered by Rockchip RK3399 Processor

- On-board Rockchip RK3399 DC Cortex®-A72 & QC Cortex®-A53
- On-board 2GB DDR4 memory and 8GB eMMC flash
- Dual HDMI 2.0 support clone mode, 1x 4K 60fps & 1x 1080p
- 1x USB3.0, 1x USB2.0, 1x USB OTG
- 2x GbE LAN, 1x RS232/422/485, 1x audio pin header
- 1x mini-PCIe socket for optional Wi-Fi/LTE modules
- Support Android 7.1 in Fanless and slim housing
- Ambient Operating Temperature: -20~60°C

NDiS B360

Industrial Visual Engine powered by 11th Gen. Intel$^®$ Core™ Processor

- On-board 11th Gen Intel$^®$ Core™ i5/i3 Processor (formerly Tiger Lake-UP3)
- 1x DDR4 SO-DIMM 3200 MHz, up to 32G
- Dual display output (DP++, HDMI 2.0)
- 4x USB 3.0, 2x GbE LAN, 1x RS232/422/485, 1x RS232 and 2W amplified speaker
- M.2 M-key 2280 slot for optional SSD
- M.2 E-key 2230 slot for optional WiFi modules
- Ambient Operating Temperature: -20~60°C
- Fanless, Compact and Slim design, 36mm in height

NDiS B560

Industrial Visual Engine powered by 8th/9th Gen. Intel$^®$ Core™ Processor

- Support 8th/9th Gen Intel$^®$ Core™ Processor (Formerly Coffee Lake)
- 3x HDMI display output independently, support 4K/2K@60Hz
- 6x USB 3.0, 2x LAN, 1x RS232/422/485, 3x RS232, 1x Line-out, 1x Mic-in
- 1x 2.5" SSD space and 1x M-key 2242/2280 slot for optional SSD
- M.2 E-key 2230 slot for optional WiFi modules
- M.2 B-key 3042/3052 slot for optional 3G / 4G / 5G modules
- Ambient Operating Temperature: -20~60°C

NDiS B560S

Industrial Visual Engine powered by 8th/9th Gen. Intel$^®$ Core™ Processor

- Support 8th/9th Gen Intel$^®$ Core™ Processor (Formerly Coffee Lake)
- 2x HDMI display output independently, support 4K/2K@60Hz
- 6x USB, 2x LAN, 1x RS232/422/485, 3x RS232, 1x Line-out, 1x Mic-in
- 1x 2.5" SSD space and 1x M.2 M-key 2242/2280 slot for optional SSD
- M.2 E-key 2230 slot for optional WiFi modules
- M.2 B-key 3042/3052 slot for optional 3G, 4G or 5G modules
- Fanless, Compact and Slim design, 39mm in height
- Ambient Operating Temperature: 0~40°C

NDiS V1000

Multi-Display Computing System powered by AMD Ryzen™ Embedded V1605B Processor

- On-board AMD Ryzen™ Embedded V1605B 4 core processor with Radeon™ Vega 8 Graphics.
- Dual DDR4 SO-DIMM, up to 32G
- 4x HDMI display output 4096 x 2160@60Hz, for video wall application
- 4x USB3.0 , 2x Intel$^®$ GbE LAN ports, 1x Line-out
- M.2 M-Key, 2280/2242 size for storage device
- M.2 E-key slot for optional WiFi module
- Ambient Operating temperature: -5°C to 40°C

NDiS M538

OPS Smart Display Computer Powered by 8th Gen. Intel$^®$ Core™ Processor

- Support 8th Gen Intel$^®$ Core™ socket Processor up to 35W (Formerly Coffee Lake)
- Integrated with Intel$^®$ UHD Graphics 630 engine
- Dual DDR4 2400/2666 MHz SO-DIMM, 32G Max.
- 1x DP++ on edge support 4K/2K @ 60Hz video output
- 1x M.2 E-key for optional WiFi module
- 1x M.2 M-key, 2280, for optional PCIe/SATA storage device
- 1x Intel$^®$ GbE LAN, 2x USB3.0, 1x USB2.0 , 1x COM port and 1x Line-out
- Support Intel$^®$ AMT technology

NDiS M538H

OPS Smart Display Computer Powered by 8th Gen. Intel$^®$ Core™ Processor

- Support 8th Gen Intel$^®$ Core™ socket Processor up to 35W (Formerly Coffee Lake)
- Integrated with Intel$^®$ UHD Graphics 630 engine
- Dual DDR4 2400/2666 MHz SO-DIMM, 32G Max.
- 1x HDMI 2.0 on edge support 4K/2K @ 60Hz video output
- 1x M.2 E-key for optional WiFi module
- 1x M.2 M-key, 2280, for optional NVMe/SATA storage device
- 1x Intel$^®$ GbE LAN, 2x USB3.0, 1x USB2.0 , 1x COM port and 1x Line-out
- Support Intel$^®$ AMT technology

NDiS S538

Smart Display Module (SDM-L) Computer powered by 6th Gen. Intel$^®$ Core™ Processor

- Support 6th Gen. Intel$^®$ Core ™ socket processor, 35W Max. (Formerly Skylake)
- Dual DDR4 2133/2400 SO-DIMM support, up to 32G.
- 1x miniDP1.2, support 4K/2K @ 60Hz video output
- 1x Intel$^®$ GbE LAN port, 4x USB3.0,
- 1x M.2 E-key 2230 for optional Wi-Fi module
- 1x M.2 M-key 2280 for optional NVMe/SATA storage device
- Support Intel$^®$ AMT technology
- SDM-L Slim size mainly for thinner signage display application

X100-N3350-P / J3455-P

X Embedded Computing Board powered by Intel$^®$ Celeron$^®$ Processor

- On-board Intel$^®$ Celeron$^®$ N3350/ J3455 SoC processor (Formerly Apollo Lake)
- Support DDR3L up to 8G, M.2 M key 2242 storage slot
- 2x HDMI 2.0, 4096 x2160 @60Hz
- 1x LVDS connector, 4x USB2.0, 1x RS232, 1x Line-out internal pin header
- 1x RS232/422/485, 2x GbE LAN, 2x USB3.0 on the Edge
- 1x M.2 M-key, 2242 for optional storage device
- 1x Mini-PCIe for optional WiFi or LTE module
- 12V / 19V DC input in 3.5" Form Factor

X300-Q370/H310

X Embedded Computing Board powered by Intel® Core ™ Processor

- Support 8th Gen Intel® Core™ i7/i5/ i3 processors 65W Max. (Formerly Coffee Lake)
- 3x HDMI2.0 Display output support 4K/2K @ 60Hz
- Internal LVDS connector on H310 board, PCIex16 slot on Q370 board
- 2 x Intel® GbE LAN port (I2190LM & I211-AT), 1x RS232/422/485, 2x RS232
- 10 x USB(Max.), Line-out & Mic-in
- 1 x M.2 E-key 2230 for optional WiFi module
- 1 x M.2 M-key 2280/2242 for optional storage device, 1 x SATA 3.0 (on Q370)
- 12V DC input in miniITX Form Factor

X302

X Embedded Computing Board powered by Intel® Core ™ Processor

- Support 8th/9th Intel® CoreTM socket type processor, 35W max. (Formerly Coffee Lake)
- Dual Channel DDR4 2400/2666 SO-DIMM, 32GB max.
- 1x VGA, 1x HDMI1.4 4K Display Output and 1x LVDS
- 2x Intel® LAN ports (I219-LM & I211-AT), 2x SATAIII
- Total 6x COM port, 10x USB, Audio and 4-in/4-out GPIO
- On-board M.2 B-key/E-key for storage & wireless connection
- Ambient Operating temperature: -5°C to 60°C
- 12V DC input in miniITX Form Factor

X200

Industrial Visual Engine powered by 11th Gen. Intel® Core™ Processor

- On-board 11th Gen Intel® Core™ i5/i3 Processor (formerly Tiger Lake-UP3)
- 1x DDR4 SO-DIMM 3200 MHz, up to 32G
- Dual display output (DP++, HDMI 2.0)
- 4x USB 3.0, 2x GbE LAN, 1x RS232/422/485, 1x RS232 and 2W amplified speaker
- 1x SATAIII for optional 2.5" SSD
- M.2 E-key, 2230 for optional WiFi modules
- Ambient Operating Temperature: -20~60°C
- Fanless, Compact and Slim design, 36mm in height

X314

X Embedded Computing Board powered by Intel® Core ™ Processor

- On-board Intel® Core™ i3-6100U / i5-6300U Processor (Formerly Skylake-U)
- 1 x DDR4 2133MHz SO-DIMM, 16GB Max.
- 1x HDMI1.4 & 1x LVDS independent display output
- 1 x M.2 B-Key, 2242, for optional storage device
- 1x miniPCIe for optional WiFi or LTE module
- 1 x Intel® GbE LAN, 5 x USB 2.0, 1 x SATAIII, internal Audio pin header
- 1x Light sensor connector, 4-in/4-out GPIO
- Support AT/ATX mode and single +12V DC Input

Box Computer

Industrial Edge Computing System

	Neu-X100	Neu-X101	Neu-X300	Neu-X302
Model				
CPU	Intel® Celeron® N3350 Intel® Celeron® J3455	Intel® Celeron® N3350 Intel® Celeron® J3455	8th Gen Intel® Core™ (Socket, 35W)	8th/9th Gen Intel® Core™ (Socket, 35W)
Chipset	-	-	Intel® Q370 /H310 PCH	Intel® Q370 /H310 PCH
Graphics	Intel® HD 500 Graphics	Intel® HD 500 Graphics	Intel® UHD Graphics 630	Intel® UHD Graphics 630
Memory	1x DDR3L SO-DIMM 8GB Max.	1x DDR3L SO-DIMM 8GB Max.	2x DDR4 SO-DIMM 32GB Max.	2x DDR4 SO-DIMM 32GB Max.
Gigabit LAN	2	2	2	2
WLAN	Optional	Optional	Optional	Optional
Hard Disk Interface	-	-	-	1x2.5" SATA
Flash Storage	M.2 M-key 2242 (SATA)	M.2 M-key 2242 (SATA)	M.2 M-key 2280 (SATA/PCIex4)	M.2 B-key 2242/3042 (if 3G/4G module not in use)
Display Output	2 x HDMI2.0	2 x HDMI1.4	3 x HDMI2.0 (Q370) 2 x HDMI2.0 (H310)	1 x VGA 1 x HDMI1.4 1 x LVDS (Internal)
Display Resolution Max.	4096 x 2160 60Hz	3840 x 2160 30Hz	4096 x2160 60Hz	4096 x2160 30Hz
Output Channel	2 independent or clone	2 independent or clone	3 independent or clone	3 independent or clone
Video Capability (Hardware Decode)	Hardware decode:HEVC (H.265), H.264, MVC, VP8, VP9, MPEG2, VC-1, WMV9, JPEG/MJPEG	Hardware decode:HEVC (H.265), H.264, MVC, VP8, VP9, MPEG2, VC-1, WMV9, JPEG/MJPEG	Hardware decode:MPEG-2 (H.262), MPEG-4(H.264),JPEG/MJPEG, HEVC(H.265), VC-1, VP8, VP9	Hardware decode:MPEG-2 (H.262), MPEG-4(H.264),JPEG/MJPEG, HEVC(H.265), VC-1, VP8, VP9
Audio Output	1 x Line-out	1 x Line-out 1 x Mic-in pin header 1 x Speaker pin header	1 x Line-out 1 x Mic-in (pin header)	1 x Line-out 1 x Mic-in 1 x Speaker (Internal)
COM Port	1 x RS232/422/485 1 x RS232 (Internal)	1 x RS232/422/485 1 x RS232 (Internal)	1 x RS232/422/485 2 x RS232 (Internal)	3 x RS232/422/485 3 x RS232
USB 2.0	4 (Internal)	2 (Edge) 2 (Internal)	4x for H310 (Internal) 6x for Q370 (Internal)	6 (Internal, Q370) 4 (Internal, H310)
USB 3.0	2	2	4	4
Expansion Slot	1 x Mini-PCIe	1 x Mini-PCIe	1 x M.2 E-key 2230	1 x M.2 E-key 2230
Operating Temp.	-5°C~50°C	-5°C~50°C	-5°C to 45°C	0°C to 45°C
DC Input	19V DC incl. AC/DC power adapter	12V DC incl. AC/DC power adapter	12V DC incl. AC/DC power adapter	12V DC incl. AC/DC power adapter
Dimension W x D x H (mm)	179.5 x 106 x 37	179.5 x 106 x 37	190 x 200 x 54.4	190 x 200 x 64.3
OS Support	Win10 / Linux	Win10 / Linux	Win10 / Linux	Win10 / Linux

Box Computer

Industrial Visual Engine

Model	NDiS B535	NDiS B537	NDiS B537-I	NDiS B560	NDiS B560S	NDiS B336R	NDiS B327-N3160	NDiS B328-KI3	NDiS B360
CPU	6th gen.Intel® Core™ (Socket, 35W)	7/6th gen. Intel® Core™ (Socket, 35W)	7/6th gen. Intel® Core™ (Socket, 35W)	9/8th gen. Intel® Core™ (Socket, 35W)	9/8th gen. Intel® Core™ (Socket, 35W)	Intel® Atom E3950	Intel® Celeron® N3160	Intel® Core i3-7100U	Intel® Core i5-1145G7E / Intel® Core i3-1115G4E
Chipset	Intel® Q170	Intel® H110	Intel® Q170	Intel® Q370	Intel® H310	-	-	-	-
Graphics	Intel® integrated HD 530 graphic engine	Intel® integrated HD 630 graphic engine	Intel® integrated HD 630 graphic engine	Intel® integrated HD 630 graphic engine	Intel® integrated HD 630 graphic engine	Intel® Gen. 9 Graphics	Intel® HD400 Graphics	Intel® HD620 Graphics	Intel® Iris® Xe (on i5)
Memory	2 x DDR4 SO-DIMM 32GB Max.	2 x DDR4 SO-DIMM 32GB Max.	2 x DDR4 SO-DIMM 32GB Max.	2 x DDR4 SO-DIMM 32GB Max.	2 x DDR4 SO-DIMM 32GB Max.	2 x DDR3L SO-DIMM 32GB Max.	2x DDR3L SO-DIMM 8GB Max.	2x DDR4 SO-DIMM 32GB Max.	1x DDR4 SO-DIMM 32GB Max.
Gigabit LAN	2	1	2	2	2	1	1	1	2
WLAN	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Hard Disk Interface	1x2.5" SATA	1x2.5" SATA	1x2.5" SATA	1x2.5" SATA	1x2.5" SATA	1x2.5" SATA	1x2.5" SATA	1x2.5" SATA	1x2.5" SATA (Optional)
Flash Storage	M.2 M-key 2242/2280	-	-	M.2 M-key 2242/2280	M.2 M-key 2242/2280	-	M.2 B-key 2242 (SATA)	M.2 M-key 2280 (SATA/PCIex4)	M.2 M-key 2280 (SATA/PCIex4)
Display Output	3 x HDMI 2.0	1 x HDMI1.4 1 x HDMI2.0	1 x HDMI1.4 1 x HDMI2.0 1 x Display Port	3 x HDMI2.0	2 x HDMI2.0	1 x DP 1 x HDMI1.4	1 x VGA 1 x HDMI1.4	2 x HDMI1.4	1 x DP++ 1 x HDMI2.0
Display Resolution Max.	4096 x 2160	3840 x 2160	3840 x 2160	4096 x2160	4096 x2160	3840 x 2160	VGA: 1920 x 1200 HDMI: 3840 x 2160	3840 x 2160	HDMI: 4096 x 2160 DP++: 4096 x 2304
Output Channel	3 Independent or Clone	2 Independent or Clone	3 Independent or Clone	3 Independent or Clone	2 Independent or Clone	2 independent or clone	2 independent or clone	2 independent or clone	2 independent or clone
Video Capability (Hardware Decode)	MPEG2,VC1, VP8, H.264, H/265	MPEG2,VC1, VP9, H.264, H/265	MPEG2,VC1, VP9, H.264, H/265	MPEG-2 (H.262), MPEG-4(H.264),JPEG/MJPEG, HEVC(H.265), VC-1, VP8, VP9	MPEG-2 (H.262), MPEG-4(H.264),JPEG/MJPEG, HEVC(H.265), VC-1, VP8, VP9	MPEG1, MPEG2,VP8 VC1, H.264, H.265	MPEG1, MPEG2,VP8 VC1, H.264, H.265"	MPEG1, MPEG2,VP8 VC1, H.264, H.265	AV1, VP9 8/10/12bit, H.265/ HEVC 8/10/12 bit, H.264/ AVC, MPEG2
Audio Output	1 x Line-out, 1 x Mic-in	1 x Line-out, 1 x Mic-in	1 x Line-out, 1 x Mic-in	1 x Line-out, 1 x Mic-in	1 x Line-out, 1 x Mic-in	1 x Line-out, 1 x Mic-in	1 x Line-out, 1 x Mic-in	1 x Line-out, 1 x Mic-in	1 x Line-out 1 x Mic-in (internal) 1 x Speaker (internal)
COM Port	4 x RS232 2 x RS232 (Internal)	2	2	1 x RS232/422/485 3 x RS232	1 x RS232/422/485 3 x RS232	1	1	1	2
USB 2.0	2 (Internal)	2 (Internal)	2 (Internal)	-	2	-	2	-	4 (Internal)
USB 3.0	6	4	4	6	4	5	4	6	4
Expansion Slot	1 x Mini-PCIe 1 x M.2 E-key 2230	1 x Mini-PCIe 1 x M.2 E-key 2230	1 x Mini-PCIe 1 x M.2 E-key 2230	1 x M.2 B-key 3042/3052 1 x M.2 E-key 2230	1 x M.2 B-key 3042/3052 1 x M.2 E-key 2230	1 x Mini-PCIe 1 x M.2 E-key 2230	1 x Mini-PCIe	1 x M.2 E-key 2230	1 x M.2 E-key 2230
Operating Temp.	0°C to 40°C	-10°C to 45°C	-10°C to 45°C	-20°C to 60°C	0°C to 40°C	-20°C to 60°C	0°C to 40°C	-20°C~50°C with SSD	-20°C~60°C
DC Input	12V DC incl. AC/DC power adapter	12V DC incl. AC/DC power adapter	12V DC incl. AC/DC power adapter	12V DC incl. AC/DC power adapter	12V DC incl. AC/DC power adapter	19V DC incl. AC/DC power adapter	19V DC incl. AC/DC power adapter	19V DC incl. AC/DC power adapter	12V DC incl. AC/DC power adapter
Dimension W x D x H (mm)	294 x 198 x 52	295 x 189.9 x 33	295 x 189.9 x 33	238 x 192 x 67.29	238 x 192 x 39	259 x 147.4 x 21	190 x 147.2 x 25	224.34 x 147.4 x 35	200 x 132.6 x 36
OS Support	Win7 / Win8.1 / WES8 / Win10 / Linux	Win10 / Linux	Win10 / Linux	Win10 / Linux	Win10 / Linux	Win10 / Linux	Win7/Win10	Win10	Win10

Box Computer

Industrial Visual Engine

Model	NDiS B115	NDiS B116	NDiS B866	NDiS V1000
CPU	Rockchip RK3288	Rockchip RK3399	6th gen. Intel® Core™ (Socket Type W)	AMD Ryzen V1605B Quad Core
Chipset	Embedded	Embedded	Intel Q170 PCH	-
Graphics	MaliT760 (Embedded)	Mali-T864 (Embedded)	AMD Radeon E8870	AMD Radeon Vega 8
Memory	DDR3 2GB on-board	DDR4 2GB on-board	4 x DDR4 SO-DIMM up to 64GB	2 x DDR4 SO-DIMM up to 32GB
Gigabit LAN	1	2	2	2
WLAN	on board 802.11 b/g/n	Optional	-	-
Hard Disk Interface	-	-	2x2.5" SATA	-
Flash Storage	eMMC2 16GB on-board	eMMC 8GB on-board	M.2 M-key 2242/2280 (SATA/PCIex4)	M.2 M-key 2242/2280 (SATA)
Display Output	1 x HDMI2.0	1 x HDMI1.4 1 x HDMI2.0	6 x HDMI 2.0	4 x HDMI2.0
Display Resolution Max.	3840 x 2160	3840x2160 4096x2160 (single display)	3840 x 2160	4096 x 2160
Output Channel	1 Independent	2 clone	6 Independent, Expanded or Clone	4 Independent, Expanded or Clone
Video Capability (Hardware Decode)	MPEG1,MPEG2,VC1 H.264,H.265,VP9	MPEG-1, MPEG-2, MPEG-4, H.263, H.264, AVS, VC-1, VP8, MVC, HEVC/H.265	Hardware Decode: MPEG1, MPEG2, VC, H.264	Hardware Decode: H.264, H.265 / HEVC (8 bit), H.265 / HEVC (10 bit), VP8, VP9, VC-1, AVC, JPEG
Audio Output	1 x Line-out	Line-out, Mic-in, Speaker (internal)"	1 x S/PDIF, 1 x Mic-inc, 1 x Line-Out	1 x MIC-in, 1 x Line-out
COM Port	1 (UART)	1	2	1x RS232/422/485 3x RS232 (Internal)
USB 2.0	2	1	N/A	2 (Internal)
USB 3.0	-	1	6	4
Expansion Slot	-	1 x Mini-PCIe	1 x Mini-PCIe 1 x M.2 E-key 1630, 2230"	1x M.2 E-key 2230
Operating Temp.	-10°C to 50°C	-20°C to 60°C	0°C to 40°C	0°C to 40°C
DC Input	5V DC incl. AC/DC power adapter	12V DC incl. AC/DC power adapter	300W ATX Power Supply	12VDC
Dimension W x D x H (mm)	118 x 101 x 23.6	179.5 x 112.5 x 39.5	428x344x44	190 x 200 x 54.4
OS Support	Android 4.4	Android 7.1	Win7/Win8.1/Win10/Linux	Win10/ Linux

Touch Computer

Model	XPPC10-100	XPPC16-100	XPPC22-100	XPPC24-100
CPU	Intel® Celeron® J3455 Quad Core, 1.50 GHz	Intel® Celeron® J3455 Quad Core, 1.50 GHz	Intel® Celeron® J3455 Quad Core, 1.50 GHz	Intel® Celeron® J3455 Quad Core, 1.50 GHz
LCD Size	10.1", 16:10	15.6", 16:9	21.5", 16:9	23.8", 16:9
Max Resolution	WXGA, 1280 x 800	WXGA, 1366 x 768	FHD, 1920 x 1080	FHD, 1920 x 1080
Touch Screen	10 Point P-Cap	10 Point P-Cap	10 Point P-Cap	10 Point P-Cap
Touch Light Transmission	90%	90%	90%	90%
Luminace (cd/m2)	Panel : 400 XPPC Touch : 360	Panel : 500 XPPC Touch : 450	Panel : 250 XPPC Touch : 225	Panel : 350 XPPC Touch : 315
Contrast Ratio	800	600	1000	1000
LCD Color	16.7M	16.7M	16.7M	16.7M
Viewing Angle	89(U), 89(D), 89(L), 89(R)	160(H), 150(V)	89(U), 89(D), 89(L), 89(R)	89(U), 89(D), 89(L), 89(R)
Backlight	LED	LED	LED	LED
Memory	1 x DDR3L SO-DIMM 8GB Max.	1 x DDR3L SO-DIMM 8GB Max.	1 x DDR3L SO-DIMM 8GB Max.	1 x DDR3L SO-DIMM 8GB Max.
Storage	M.2 M-Key 2242	M.2 M-Key 2242	M.2 M-Key 2242	M.2 M-Key 2242
2nd Display	HDMI2.0	HDMI2.0	HDMI2.0	HDMI2.0
Gigabit LAN	2	2	2	2
USB 3.0	2	2	2	2
COM Port	1 x RS232/422/485	1 x RS232/422/485	1 x RS232/422/485	1 x RS232/422/485
Expansion	1 x Mini PCIe 1 x Sim Card Slot	1 x Mini PCIe 1 x Sim Card Slot	1 x Mini PCIe 1 x Sim Card Slot	1 x Mini PCIe 1 x Sim Card Slot
Housing Material	Metal	Metal	Metal	Metal
Mounting	VESA 75 x 75mm Panel Mount (Optional kit) Open Frame (Optional kit)	VESA 100 x 100mm Panel Mount (Optional kit) Open Frame (Optional kit)	VESA 100 x 100mm Panel Mount (Optional kit) Open Frame (Optional kit)	VESA 100 x 100mm Panel Mount (Optional kit) Open Frame (Optional kit)
Power Input	19V DC	19V DC	19V DC	19V DC
Power Adapter	45W AC/DC power adapter with lock type	90W AC/DC power adapter with lock type	90W AC/DC power adapter with lock type	90W AC/DC power adapter with lock type
Operating Temp.	0°C to 50°C	0°C to 50°C	0°C to 50°C	0°C to 50°C
Storage Temp.	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C
Operating Humidity	10%~90% Non-condensing	10%~90% Non-condensing	10%~90% Non-condensing	10%~90% Non-condensing
IP level	IP65 on the Front	IP65 on the Front	IP65 on the Front	IP65 on the Front
Certification	CE: EN55032/35 FCC Class A	CE: EN55032/35 FCC Class A	CE: EN55032/35 FCC Class A	CE: EN55032/35 FCC Class A
Cut-Out size (W x H) (mm)	246.5 x 164.5 (Horizontal)	370.5 x 240 (Horizontal)	508 x 303 (Horizontal)	546.7 x 326.1 (Horizontal)
Dimenssion (W x H x D) (mm)	260.3 x 178.3 x 44.7 (Horizontal)	382.2 x 251.4 x 51.9 (Horizontal)	520.6 x 315.6 x 54 (Horizontal)	557 x 336.7 x 55 (Horizontal)
OS Support	Win10 / Linux	Win10 / Linux	Win10 / Linux	Win10 / Linux
Net Weight	2kg	3kg	TBD	6kg

Embedded Computing Board

Model	X100	X101	X200	X300
Type	3.5	3.5	3.5	miniITX
CPU	Intel® Celeron® N3350 Intel® Celeron® J3455	Intel® Celeron® N3350 Intel® Celeron® J3455	11th Gen Intel® Core™ (SoC, 15W)	8th Gen Intel® Core™ (Socket, 35W)
Chipset	-	-	-	Intel® Q370 /H310 PCH
Graphics	Intel® HD 500 Graphics	Intel® HD 500 Graphics	Intel® HD 630 Graphics on i3 Intel® Iris® Xe Graphics on i5	Intel® UHD Graphics 630
Memory	1x DDR3L SO-DIMM 8GB Max.	1x DDR3L SO-DIMM 8GB Max.	1 x DDR4 SO-DIMM	2x DDR4 SO-DIMM 32GB Max.
Gigabit LAN	2	2	2	2
WLAN	Optional	Optional	Optional	Optional
Hard Disk Interface	-	-	1 x 2.5" SATAIII	1 x 2.5" SATA
Flash Storage	M.2 M-key 2242 (SATA)	M.2 M-key 2242 (SATA)	M.2 M-key 2242/2280 (SATA & PCIe x4)	M.2 M-key 2280 (SATA/PCIex4)
Display Output	2 x HDMI2.0 1 x LVDS	2 x HDMI1.4 1 x eDP (optional:LVDS)	1 x DP++ 1 x HDMI2.0 1 x eDP	3 x HDMI2.0 (Q370) 2 x HDMI2.0 (H310) 1 x LVDS (H310)
Display Resolution Max.	4096 x 2160 60Hz	3840 x 2160 30Hz	4096 x 2304 60Hz	4096 x2160 60Hz
"Video Capability (Hardware Decode)"	Hardware decode:HEVC (H.265), H.264, MVC, VP8, VP9, MPEG2, VC-1, WMV9, JPEG/MJPEG	Hardware decode:HEVC (H.265), H.264, MVC, VP8, VP9, MPEG2, VC-1, WMV9, JPEG/MJPEG	Hardware decode: AV1, VP9 8/10/12bit, H.265/HEVC 8/10/12 bit, H.264/AVC, MPEG2	Hardware decode:MPEG-2 (H.262), MPEG-4(H.264),JPEG/MJPEG, HEVC(H.265), VC-1, VP8, VP9
Audio Output	1 x Line-out pin header	1 x Line-out pin header 1 x Mic-in pin header 1 x Speaker pin header	1 x Line-out pin header 1 x Mic-in pin header 1 x Speaker pin header	1 x Line-out 1 x Mic-in pin header
COM Port	1 x RS232/422/485 1 x RS232 (pin header)	1 x RS232/422/485 1 x RS232 (pin header)	1 x RS232/422/485 (pin header) 1 x RS232 (pin header)	1 x RS232/422/485 (pin header) 2 x RS232 (pin header)
USB 2.0	4 (Internal)	2 (Edge) 2 (pin header)	4 (pin header)	6x for Q370 (pin header) 4x for H310 (pin header)
USB 3.0	2	2	4	4
Expansion Slot	1 x Mini-PCIe (SIM socket)	1 x Mini-PCIe (SIM socket)	1 x M.2 E-key 2230	1 x M.2 E-key 2230 1x PCIe x16
Operating Temp.	-5°C to 60°C	-5°C to 60°C	-20°C to 60°C	-5°C to 60°C
DC Input	12V / 19V DC	12V DC	12V DC	12V DC
Dimension W x D x H (mm)	146 x 102	146 x 102	146 x 102	170 x 170
OS Support	Win10 / Linux	Win10 / Linux	Win10 / Linux	Win10 / Linux

	X302	V1000
	miniITX	miniITX
	8th/9th Gen Intel® Core™ (Socket, 35W)	AMD Ryzen V1605B Quad Core
	Intel® Q370 /H310 PCH	-
	Intel® UHD Graphics 630	AMD Radeon Vega 8
	2x DDR4 SO-DIMM 32GB Max.	2 x DDR4 SO-DIMM up to 32GB
	2	2
	Optional	Optional
	2 x 2.5" SATA	M.2 M-key 2242/2280 (SATA)
	M.2 B-key 2242/3042 (if 3G/4G module not in use)	4 x HDMI2.0
	1 x VGA 1 x HDMI1.4 1 x LVDS (Internal)	4096 x 2160
	4096 x2160 30Hz	4096 x 2160 60Hz
	Hardware decode:MPEG-2 (H.262), MPEG-4(H.264),JPEG/MJPEG, HEVC(H.265), VC-1, VP8, VP9	Hardware Decode: H.264, H.265 / HEVC (8 bit), H.265 / HEVC (10 bit), VP8, VP9, VC-1, AVC, JPEG
	1 x Line-out 1 x Mic-in 1 x Speaker (pin header)	1 x MIC-in, 1 x Line-out
	3 x RS232/422/485 3 x RS232 (pin header)	1 x RS232/422/485 3 x RS232 (pin header)
	6 (pin header, Q370) 4 (pin header, H310)	2 (pin header)
	4	4
	1 x M.2 E-key 2230 1 x PCIe x16	1 x M.2 E-key 2230 1x PCIe x8
	-5°C to 60°C	0°C to 60°C
	12V DC	12VDC
	170 x 170	170 x 170
	Win10 / Linux	Win10/ Linux

Modular PC

Model	NDiS M324	NDiS M335
Type	OPS	OPS
CPU	Intel® Celeron® processor J1900	Intel® Celeron® N3160
Chipset	-	-
Graphics	Intel® Gen. 7 graphics	Intel® HD Graphics
Memory	2 x DDR3L SO-DIMM, up to 8GB	2 x DDR3L SO-DIMM 8GB Max.
Gigabit LAN	1	1
WLAN	Optional	Optional
Hard Disk Interface	1 x 2.5" SATA	1 x 2.5" SATA
Flash Storage	N/A	M.2 M-key 2280 (SATA)
Display Output	1 x HDMI 1 x TMDS(via JAE connector)	2 x HDMI 1 x TMDS (via JAE connector)
Display Resolution Max.	1920 x 1080	HDMI1:1920 x 1080 HDMI2: 3840 x 2160
Video Capability (Hardware Decode)	Hardware decode:MPEG2/4, VC1, H.264, VP8	Hardware decode: MPEG1, MPEG2,VP8 VC1, H.264, H.265
Audio Output	1 x Mic-in, 1 x Line-out, 1 x Line-out(via JAE connector)	1 x Mic-in, 1 x Line-out, 1 x Line-out(via JAE connector)
COM Port	1 x TX/RX (via JAE connector)	1 x TX/RX (via JAE connector)
USB 2.0	1 x Edge 2 via JAE connector	2 x Edge 2x via JAE connector
USB 3.0	3 x Edge 1 x via JAE connector	2x Edge 1x via JAE connector
Expansion Slot	1 x Mini-PCIe	1 x Mini-PCIe
Operating Temp.	0°C to 45°C	0°C to 45°C
Power Type	12-19V DC(via JAE connector)	12-19V DC (via JAE connector)
Dimension W x D x H (mm)	200 x 119 x 30	200 x 119 x 30
OS Support	Win7/ Win8.1/ WES8 /Linux	Win7/ Win8.1/ WES8/ Win10 / Linux

Modular PC

Model	NDiS M535	NDiS M537	NDiS M538	NDiS M538H
Type	OPS	OPS+	OPS	OPS
CPU	6th Gen Intel® Core™ i5-6440EQ/i7-6820EQ (BGA)	7/6th Gen Intel® Core™ (Socket, 35W)	8th Gen Intel® Core™ (Socket, 35W)	8th Gen Intel® Core™ (Socket, 35W)
Chipset	Intel® QM170 PCH	Intel® QM170 PCH	Intel® Q370 PCH	Intel® Q370 PCH
Graphics	Intel® integrated HD 530 graphic engine	Intel® integrated HD 600 series	Intel® integrated HD 630 series	Intel® integrated HD 630 series
Memory	2 x DDR4 SO-DIMM 32GB Max.	2 x DDR4 SO-DIMM 32GB Max.	2 x DDR4 SO-DIMM up to 32GB	2 x DDR4 SO-DIMM up to 32GB
Gigabit LAN	1	1	1	1
WLAN	Optional	-	-	-
Hard Disk Interface	1 x 2.5" SATA	-	-	-
Flash Storage	-	M.2 M-key 2242 (SATA)	M.2 M-key 2280 (SATA/PCIex4)	M.2 M-key 2280 (SATA/PCIex4)
Display Output	1 x HDMI2.0 1 x Mini DP, 1 x TMDS (HDMI2.0) (via JAE connector)	1 x Mini DP 1 x TMDS(HDMI2.0) (via JAE connector) 1 x DP (via FX18)	1 x DP 1 x TMDS(HDMI2.0) (via JAE connector).	1 x HDMI 1 x TMDS (HDMI2.0) (via JAE connector).
Display Resolution Max.	3840 x 2160	3840 x 2160	3840 x 2160	3840 x 2160
Video Capability (Hardware Decode)	Hardware decode: MPEG2,VC1, VP8, H.264, H/265	Hardware decode: MPEG2,VC1, VP8, H.264, H/265	Hardware decode:MPEG-2 (H.262), MPEG-4(H.264),JPEG/MJPEG, HEVC(H.265), VC-1, VP8, VP9	Hardware decode:MPEG-2 (H.262), MPEG-4(H.264),JPEG/MJPEG, HEVC(H.265), VC-1, VP8, VP9
Audio Output	1 x Mic-in, 1 x Line-out, 1 x Line-out(via JAE connector)	1 x Mic-in, 1 x Line-out, 1 x Line-out(via JAE connector)	1 x Line-out 1 x Line-out(via JAE connector)	1 x Line-out 1 x Line-out(via JAE connector)
COM Port	1 x TX/RX (via JAE connector)	1 x RS232 (COM2) 1 x TX/RX (via JAE connector)	1 x RS232 (COM2) 1 x TX/RX (via JAE connector)	1 x RS232 (COM2) 1 x TX/RX (via JAE connector)
USB 2.0	2x via JAE connector	2 x via JAE connector	1 x Edge 2 x via JAE connector	2 x Edge 2 x via JAE connector
USB 3.0	2x Edge 1x via JAE connector	2 x Edge 1 x via JAE connector	2 x Edge 1 x via JAE connector	2 x Edge 1 x via JAE connector
Expansion Slot	1 x Mini-PCIe	1 x M.2 E-Key 2230	1 x M.2 E-Key 2230	1 x M.2 E-Key 2230
Operating Temp.	0°C to 45°C	0°C to 45°C	0°C to 45°C	0°C to 45°C
Power Type	12-19V DC (via JAE connector)	12-19V DC (via JAE connector)	12-19V DC (via JAE connector)	12-19V DC (via JAE connector)
Dimension W x D x H (mm)	200 x 119 x 30	200 x 119 x 30	200 x 119 x 30	200 x 119 x 30
OS Support	Win7/ Win8.1/ WES8/ Win10 / Linux	Win10 / Linux	Win10 / Linux	Win10 / Linux

AI at the Edge

	NDiS S538	Model	AIEdge-X300	AIEdge-X500
	NDiS S538		AIEdge-X300	AIEdge-X500
	SDM-L	CPU	8th Gen Intel® Core™ (Socket, 65W Max.)	8th/9th Gen Intel® Core™ (Socket, 95W Max.)
	6th Gen Intel® Core™ (Socket, 35W)	Chipset	Intel® Q370 PCH	Intel® Q370 PCH
	Intel® QM170 PCH	Graphics	Intel® UHD Graphics 630	Intel® UHD Graphics 630
	Intel® integrated HD 600 series	Memory	DDR4 SO-DIMM, up to 32GB	DDR4 SO-DIMM, up to 32GB
	2 x DDR4 SO-DIMM up to 16GB	Gigabit LAN	2	2
	1	WLAN	Optional	-
	-	Hard Disk Interface	1 x 2.5" SATA	4 x 2.5" SATA (Hot-Swap)
	-	Flash Storage	M.2 M-key 2280 (SATA/PCIex4)	M.2 M-key 2280 (SATA/PCIex4)
	M.2 M-key 2280 (SATA)	Display Output	3 x HDMI2.0	1 x HDMI 2.0
	1 x Mini DP 1 x TMDS (HDMI2.0) (via JAE connector) 1 x DP (via FX18)	Display Resolution Max.	4096 x 2160	4096 x 2160
	3840 x 2160	Video Capability (Hardware Decode)	Hardware decode:MPEG-2 (H.262), MPEG-4(H.264),JPEG/MJPEG, HEVC(H.265), VC-1, VP8, VP9	Hardware decode:MPEG-2 (H.262), MPEG-4(H.264),JPEG/MJPEG, HEVC(H.265), VC-1, VP8, VP9
	Hardware decode: MPEG2,VC1, VP9, H.264, H/265	Audio Output	1x Line-out	1x Line-out
	1 x Line-out (via JAE connector)	COM Port	1 x RS232 1 x RS232/422/485 1 x RS232 (Internal)	1 x RS232/422/485 3 x RS232 (Internal)
	1 x TX/RX (via JAE connector)	USB 2.0	4 (Internal)	1 6 (Internal)
	2 x via JAE connector	USB 3.0	4	2
	4x External 1x via JAE connector	Expansion Slot	M.2 E-key 2230 1 x PCIex16,two slot space"	1x PCIex16, two slot space 1x PCIex4 slot 1x PCI slot
	M.2 E-key 2230	Add-on Card Length (mm)	204mm Max.	327mm Max.
	0°C to 55°C	Operating Temp.	0°C to 45°C	0°C to 45°C
	12-19V DC (via JAE connector)	Power Type	500W ATX power supply	800W ATX power supply
	175 x 100 x 20	Dimension W x D x H (mm)	360 x 250 x 85	290 x 360 x 150
	Win10 / Linux	OS Support	Win10 / Linux	Win10 / Linux

About NEXCOM

Reliable Partner for the Intelligent Solutions — Committed to Customer Success

Founded in 1992 and headquartered in Taipei, Taiwan, NEXCOM is committed to being your trustworthy partner in building the intelligent solutions. To surpass customers' expectations, NEXCOM makes the difference by utilizing its decades of industrial computing experience, a highly talented R&D team, and by providing exceptional levels of customer service. With these core strengths, NEXCOM has enabled its customers to win key projects in a diverse range of industries.

With its focus on delivering these core values to better serve customers, NEXCOM integrates its capabilities and operates six global businesses, which are IoT Automation Solutions, Intelligent Video Security, Intelligent Platform @ Smart City, Mobile Computing Solutions, Medical and Healthcare Informatics, Network and Communication Solutions. This strategic deployment enables NEXCOM to offer time-to-market, time-to-solution products and service without compromising cost.

In addition, the service-to-market business model gives NEXCOM core competence to build a strong world-class service network by providing customized service, global logistics, local access, and real-time support. Operating six subsidiaries, from China, Japan, Taiwan, the United States, to the United Kingdom, NEXCOM is able to better facilitate customers' requirements as well as closely work with global partners in different regions.

Partners should also be assured that NEXCOM's Taiwan based Headquarters and subsidiary offices in China, UK and USA have obtained ISO 9001:2008 Certification.

IAS	IoT Automation Solutions: Industrial Automation & I4.0 Execution, Intelligent Edge, Gateway & EWR, Industrial Robot Control, EtherCAT Motion Solutions, Wireless & Embedded Solutions for Industrial IoT
IDS	Intelligent Video Surveillance: IP Video Surveillance Cameras, Mobile Cameras, ANPR/LPR Network Cameras, Panoramic Cameras, NVR Server Platform
IPS	Intelligent Platform @ Smart City: Smart City, Smart Retail, Digital Signage, Interactive Kiosks, Hospitality, Gateway, AI Edge and ODM Customization Services
MCS	Mobile Computing Solutions: Rugged Vehicular Computers and Equipment, Vehicular Telematics Computers, Railway Computers, In-Vehicle AI
MHI	Medical and Healthcare Informatics: Total Solutions with a Variety of Medical IT Systems
NCS	Network and Communication Solutions: Network Security, HPC, Telecommunications, Storage, SDN/NFV, Industrial Security

Corporate Vision

To become the industrial leader in providing intelligent solutions, NEXCOM utilizes its industry leading technology, localized customer support and worldwide logistics services. This will be achieved by:

- Great team work
- Cooperation with trusted partners
- Growth through innovation

Corporate Mission

- An innovative supplier in vertical application markets
- A quality partner in engineering, manufacturing and services

Business Strategy

Aim to better support the activities of all its partners, NEXCOM divides its sales force into eight dedicated business units to target rapidly expanding vertical markets. This enhances each business unit concentrating on strategic channel accounts and on repeat order business. Moreover, NEXCOM's business units have been set up to serve the requirements of key project accounts, where product ODM and project support are frequently required.

NEXCOM is working with embedded computing solution providers to envision new opportunities for growth. We'll help you deliver reliable vertical solutions, optimized for the next wave of IoT and Industry 4.0 solutions.

Headquarters

NEXCOM International Co., Ltd.

9F, No.920, Chung-Cheng Rd., ZhongHe District, New Taipei City, 23586, Taiwan, R.O.C.
Tel: +886-2-8226-7786
Fax: +886-2-8226-7782
www.nexcom.com

Asia

Taiwan
NexAIoT Co., Ltd.
Taipei Office

13F, No.922, Chung-Cheng Rd.,
ZhongHe District,
New Taipei City, 23586, Taiwan, R.O.C.
Tel: +886-2-8226-7796
Fax: +886-2-8226-7792
Email: jacobhuang@nexaiot.com
www.nexaiot.com

NexAIoT Co., Ltd.
Taichung Office

16F, No.250, Sec. 2, Chongde Rd.,
Beitun District,
Taichung City, 406, Taiwan, R.O.C.
Tel: +886-4-2249-1179
Fax: +886-4-2249-1172
Email: jacobhuang@nexaiot.com
www.nexaiot.com

NexCOBOT Taiwan Co., Ltd.

13F, No.916, Chung-Cheng Rd.,
ZhongHe District,
New Taipei City, 23586, Taiwan, R.O.C.
Tel: +886-2-8226-7786
Fax: +886-2-8226-7926
Email: jennyshern@nexcobot.com
www.nexcobot.com

GreenBase Technology Corp.

13F, No.922,Chung-Cheng Rd.,
Zhonghe District,
New Taipei City, 23586, Taiwan, R.O.C.
Tel: +886-2-8226-7786
Fax:+886-2-8226-7900
Email:sales@nexcom.com.tw
www.nexcom.com.tw

EMBUX Technology Co., Ltd.

13F, No.916, Chung-Cheng Rd.,
ZhongHe District,
New Taipei City, 23586, Taiwan, R.O.C.
Tel: +886-2-8226-7786
Fax: +886-2-8226-7782
Email: sales@nexcom.com.tw
www.nexcom.com.tw

TMR Technology Corp.

13F, No.916, Chung-Cheng Rd.,
ZhongHe District,
New Taipei City, 23586, Taiwan, R.O.C.
Tel: +886-2-8226-7786
Fax: +886-2-8226-7782
Email: sales@nexcom.com.tw
www.nexcom.com.tw

China

NEXSEC Incorporated

201, Floor 2, Unit 2, Building 15, Yard 3,
Gaolizhang Road, Haidian District,
Beijing, 100094, China
Tel: +86-10-5704-2680
Fax: +86-10-5704-2681
Email: marketing@nexsec.cn
www.nexsec.cn

NEXCOM Shanghai

No.4,16Building,
Shanghai OMNI Tech&Science Park
No.1699, Douhui Rd.,
Shanghai, 201108, China
Tel: +86-21-5278-5868
Fax: +86-21-3251-6358
Email: sales@nexcom.cn
www.nexcom.cn

NEXCOM Surveillance Technology Corp.

5F, Building C, ZhenHan Industrial Zone,
GanKeng Community, Buji Street,
LongGang District,
ShenZhen, 518112, China
Tel: +86-755-8364-7768
Fax: +86-755-8364-7738
Email: steveyang@nexcom.com.tw
www.nexcom.cn

NEXCOM United System Service

Room 604, Huiyinmingzun Plaza Bldg. 1,
No. 609, Yunlin East Rd.,
Shanghai, 200062, China
Tel: +86-21-5278-5868
Fax: +86-21-3251-6358
Email: renwang@nexcom.com.tw
www.nexcom.cn

NEXGOL Chongqing

2F, Building B4, Electronic 2nd Area,
(Phoenix Lake Industrial Park), Yongchuan Dist.,
Chongqing City, 402160, China
Tel: +86-23-4960-9080
Fax: +86-23-4966-5855
Email: sales@nexgol.com.cn
www.nexcobot.com/NexGOL

Beijing NexGemo Technology Co.,Ltd.

5F, Gemotech Building, No.1, Development Rd.,
Changping International Information Industry Base,
Changping District,
Beijing,102206, China
Tel: +86-10-8190-9399
Fax:+86-10-8190-9456
Email: sales@gemotech.cn
www.nexgemo.cn

Japan

NEXCOM Japan

9F, Tamachi Hara Bldg.,
4-11-5, Shiba Minato-ku,
Tokyo, 108-0014, Japan
Tel: +81-3-5419-7830
Fax: +81-3-5419-7832
Email: sales@nexcom-jp.com
www.nexcom-jp.com

America

USA
NEXCOM USA

Sales & Marketing,
Accounting, HR, and FAE
46665 Fremont Blvd.,
Fremont, CA 94538, USA
Tel: +1-510-656-2248
Fax: +1-510-656-2158
Email: sales@nexcom.com
www.nexcomusa.com

Production, Logistics, and
RMA Service
41300 Boyce Rd, Fremont,
CA 94538, USA
Tel: +1-510-656-2248
Fax: +1-510-656-2158
Email: sales@nexcom.com
www.nexcomusa.com

Europe

United Kingdom
NEXCOM EUROPE

10 Vincent Avenue,
Crownhill Business Centre,
Milton Keynes, Buckinghamshire
MK8 0AB, United Kingdom
Tel: +44-1908-267121
Fax: +44-1908-262042
Email: sales.uk@nexcom.eu
www.nexcom.eu