



COMMITTED TO CUSTOMER SUCCESS



Creating
Smarter Business

Distributed by:



A FORTEC GROUP MEMBER

2022

Intelligent Platform & Services in Smart City Product Selection Guide

Creating Smarter Business



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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 Entertainment

- Gaming / Casino
- Sports
- Hotel Facility

Smart Gateway

- Agriculture / Farming
- IoT Gateway
- Energy Saving

Smart Service

- Self Check-In/Out System
- Interactive Kiosk System
- AI-Enabled System

Smart Transportation

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

Commerce & Education

- Interactive White Board
- Video Conference Facility

Smart Building

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

ODM Service

- Medical Devices
- POS Devices
- Machine Equipment

The Future • Your Way

Drive Digital Transformation Together in Smart City

📍 Supermarket

- Self-Service Checkout Kiosk
- On-Shelves Promotional Signage
- Recycling Machine

📍 Hospital

- Healthcare Machine
- Mirror Therapy Machine
- Gateway of Medical Equipment
- Payment Kiosk

📍 Metro Station

- Ticketing Machine
- Access Control Machine
- Passenger Information Display System
- Smart Parcel Locker
- Rental Kiosk

📍 Roadside

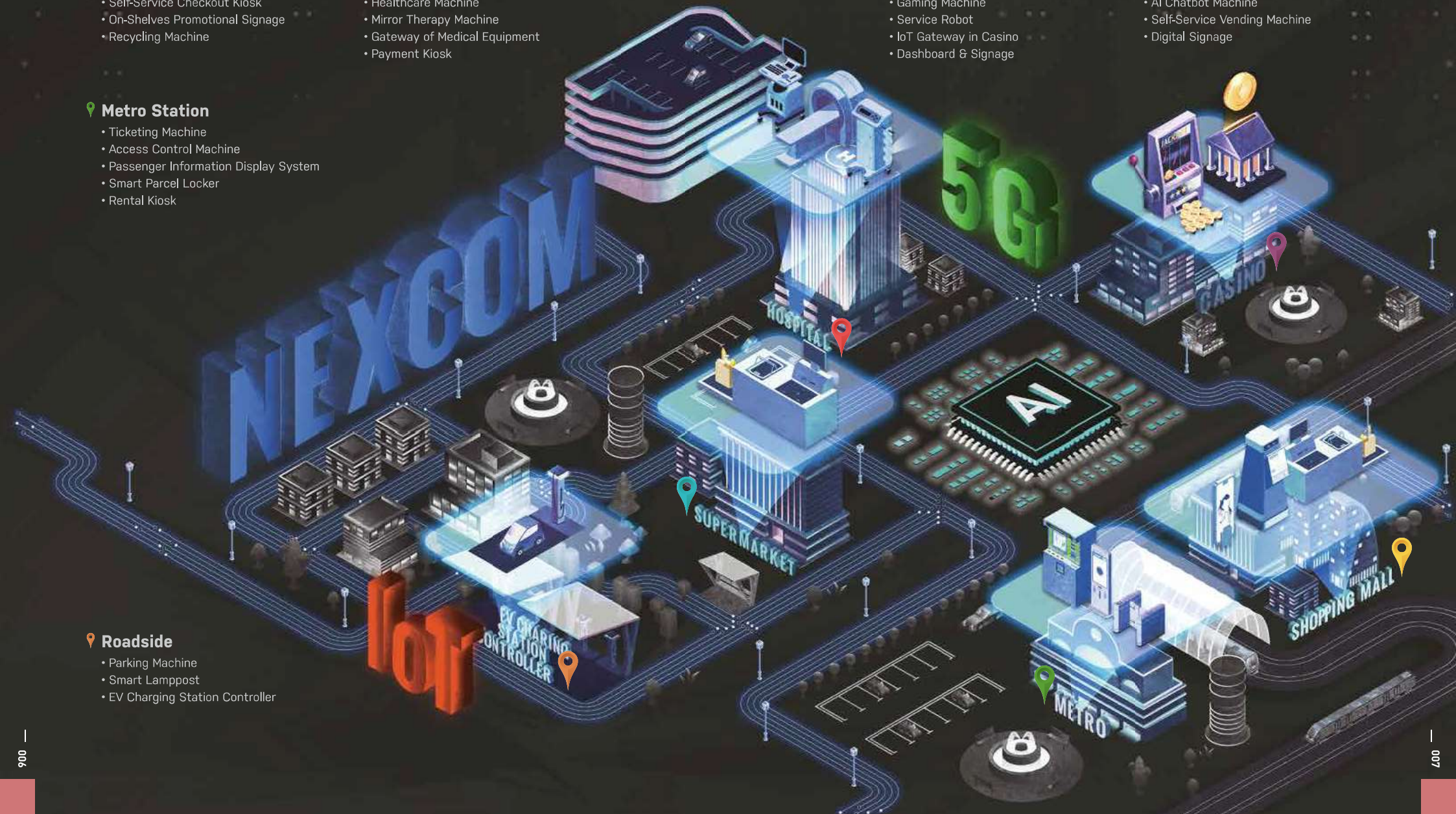
- Parking Machine
- Smart Lamppost
- EV Charging Station Controller

📍 Casino

- Gaming Machine
- Service Robot
- IoT Gateway in Casino
- Dashboard & Signage

📍 Shopping Mall

- AI Chatbot Machine
- Self-Service Vending Machine
- Digital Signage



Your Vision • Our Mission

Co-Creating AI, IoT & 5G Solution

📍 Metro Station

- Ticketing Machine
- Passenger Information Display System
- Access Control Machine
- Smart Parcel Locker
- Rental Kiosk

📍 Shopping Mall

- Self-Service Vending Machine
- AI Chatbot Machine
- Digital Signage

📍 Roadside

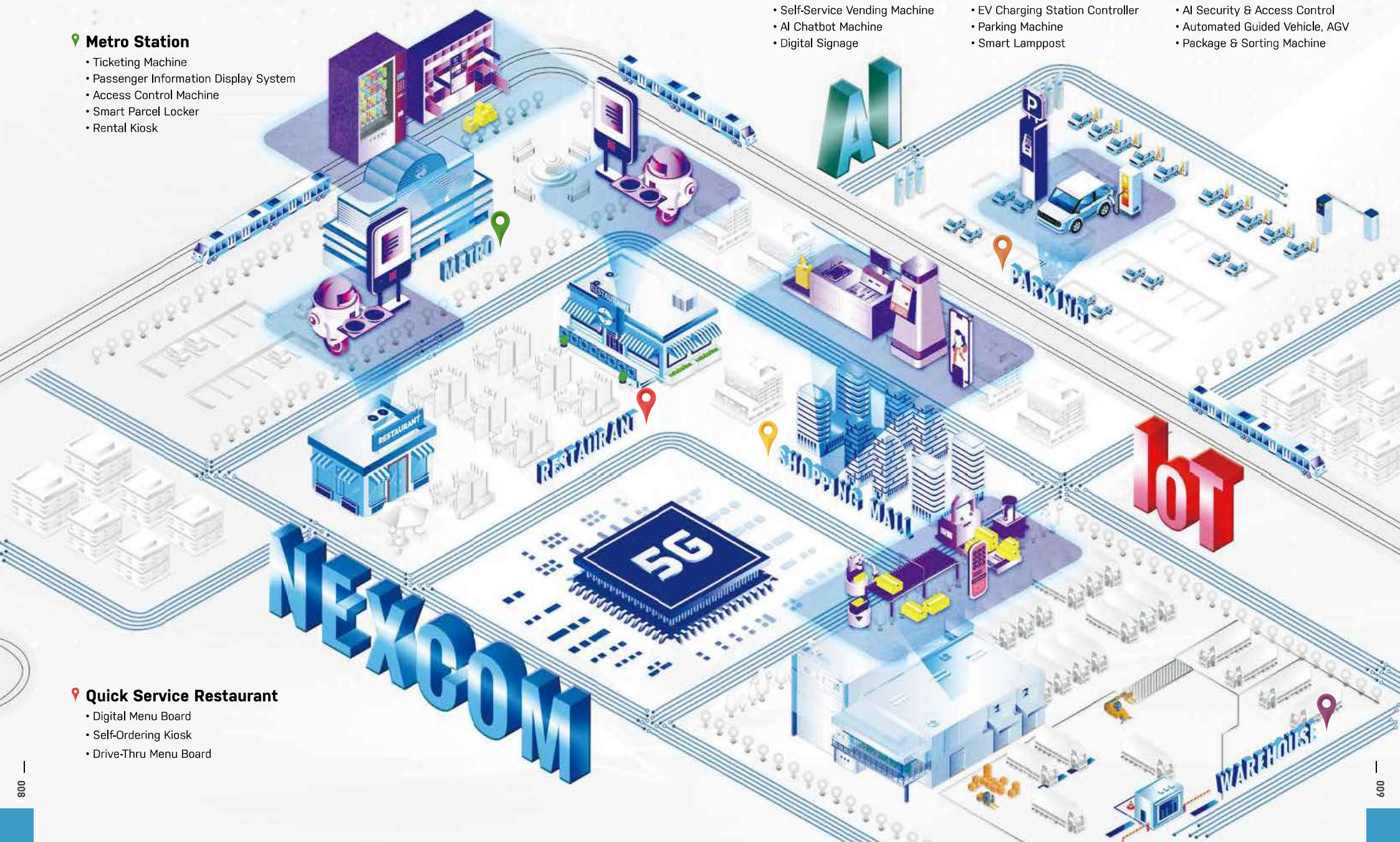
- EV Charging Station Controller
- Parking Machine
- Smart Lamppost

📍 Warehouse

- AI Security & Access Control
- Automated Guided Vehicle, AGV
- Package & Sorting Machine

📍 Quick Service Restaurant

- Digital Menu Board
- Self-Ordering Kiosk
- Drive-Thru Menu Board





Self-Service Kiosks

NDiS B535 Kiosk Breathes Efficiency into Metro Ticketing in Istanbul

An entrance lined with yellow transit kiosks will come into sight when you step out of the Istanbul airport shuttle bus. Down the stairway to any metro station, the same type of infokiosks are always on, ready to assist. Being a crucial part of Turkey's largest public transportation, these self-service kiosks process hundreds of thousands of ticket transactions for Istanbul on the daily basis. Serving a city with a population more than 15 million, the self-serving machines offer the same uniform yet intuitive experience, from metro card selling, ticket printing, to returning the changes, quick and efficient. NEXCOM is proudly to be the solution provider, enabling every engagement, click or draw, to be smooth and effortless as it is intended.

Ticket sales procedures through manual counters were an obvious bottleneck during the rush hours, and long queues have plagued metro services for years. The operator thus held a high hope for the revamp to the ticketing system could help relieve the congestion in busy moments, without the need to reinforce for specific shifts.

The NEXCOM NDiS B535 then came fully-gearred to the rescue. The ruggedized appliance easily withstood the hustle and bustle of a semi-outdoor environment. The 6th Gen Intel® Core™ processor,

coupled with a fanless design, a rare blend for a system of its size, proved significant performance along with reliable output throughout long hours of operation. The fanless design of the infokiosk also meant a huge advantage in maintenance for minimal clogging at the air vent, which contributed a majority of downtime for fanned systems, according to statistics. A rich set of I/O made connections to peripherals breeze for the integrator, from cash acceptor and dispenser, card reader, all the way to ticket printers on a single platform. The self-service kiosks delivered a pleasant purchasing experience for passengers: quick, intuitive and streamlined.

The new ticketing system brought the long awaited efficiency back to the old city. A blend of robust design, outstanding reliability, ease of maintenance, and comprehensive connectivity, the NDiS B535 makes an economical choice for the metro operator, while winning over the hearts of commuters and visitors as well. Also sharing the same winning combinations, every NDiS box PC meets a high standard of custom peripheral integration and is about to extend the flexibility to more services around the globe. At NEXCOM, delivering satisfying results in cost-effectiveness with building partners has been and will always be our first priority.



Projection Mapping

NEXCOM Delivers a Cine-magic Solution



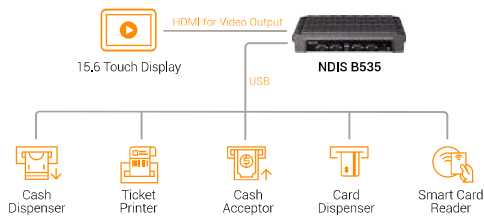
Visual projections, whether in art installation or traditional cinema form, transport us to other times and places, a welcome distraction especially in the era of COVID-19. In the future, when the epidemic is under control and protective measures are thoroughly enforced, high-quality digital projection will continue to be in great demand. NEXCOM's client, a worldwide distributor of audio-visual systems, needed to find a solution to replace and modernize clients' cinema projectors to prepare for forthcoming indoor and outdoor projection mapping needs.

More specifically, NEXCOM was tasked with supplying the computing engine and customizing its services to help the company fulfill the requirements of clients across the globe. The computer needed to be compact and budget-friendly, yet powerful enough to drive its large-scale cinema projector. In addition, the client called for NEXCOM to design accessories such as touch display and cable to easily connect the display to the projector.

NEXCOM offered a cinema projector solution based on a computer-on-module (COM), with customized 10" touchscreen

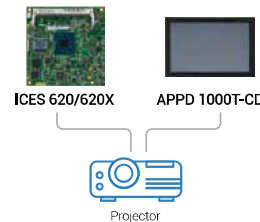
controls and three-in-one cable that combined USB, VGA, and DC inputs. With the durable construction and modular design, the client could save money; it could keep the same projector long-term and swap out components as needed. The centerpiece of the projector was the ICES 620X COM, highlighted by an embedded Intel Atom® E3900 processor, offering affordability and energy efficiency, especially critical as digital projections can consume considerable amounts of power. The ICES 620X also integrated Intel's Gen7 graphic engine for exceptional high-definition display, while including peripheral USB and VGA ports. For convenience, NEXCOM tailor made the three-in-one cable which connected the COM to the external touch display, a smaller version of NEXCOM's APPD series displays, but large enough for users to effortlessly operate the projector. In addition, NEXCOM provided shielding against electromagnetic interference (EMI) to ensure that these expensive components were well protected and avoided malfunctions.

NEXCOM once again demonstrates that it keeps customers top of mind in delivering comprehensive, specially made solutions.



NDiS B535

- 6th Generation Intel® Core™ processor
- Intel® integrated HD 530 graphic engine
- Support 3 independent 4K2K 60Hz video out
- USB3.0 x 6, RS-232 x 4, Dual GbE LAN support
- NGFF type storage and WLAN support
- DirectX® 12 support
- Fanless design



APPD 1000T-CD

- 10.1", 16:10 LCD Panel
- 4-wire, resistant touch panel sensor
- 1 x VGA, 1 x USB, 1 x lockable DC Power Jack
- Support 12-24V DC Input
- Dimension 248.2 x 166.8 x 36.3mm
- Linux OS, Windows XP & Win 7
- 1G peak, 5~500Hz(Random)
- 15G peak acceleration (11 msec, duration)





Digital Advertising

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.



Information Display

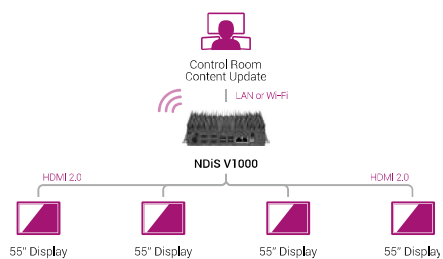
Transportation Display Versatility: All A-Board!

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.

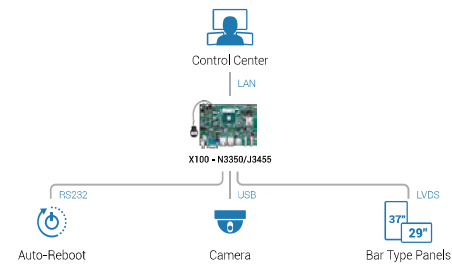
The double-decker buses required a computer that was adaptable for various spatial requirements. Because the X100 was an embedded board, it was flexible and small enough to connect to different size and bar-type panels via LVDS for information displays. It also easily provided real-time bus stop information 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.



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

- 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@Precision Marketing

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"

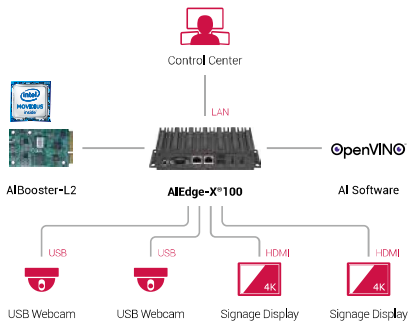


Figure 1. The AIEdge-X®100 AI precision marketing system.

system in the AIEdge-X®100, powered by Intel® Celeron™ CPU and Movidius™ Myriad™ X VPU (via NEXCOM AIBooster®-X2 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 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.



Mirror Therapy

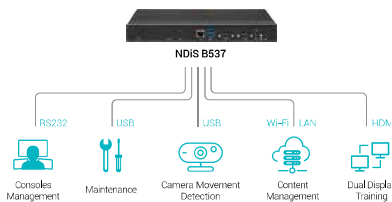
NDiS B537 Embedded Computer Powers

Mirror therapy improves the movement of affected limbs after a stroke. The original approach, as the name implies, involved using a box with a mirror for this treatment method. Nowadays, the mirror is replaced with a modern slim computer using high-resolution cameras and displays that bring this treatment method into the 21st-century healthcare system.

On our customer's mirror therapy device, the high-resolution screen might be the standout feature, but providing silent and powerful performance in the background is the NDiS B537 fanless embedded system multimedia player. This embedded system provides the perfect combination of features to fit with the design principles that are key for medical devices. The embedded system is compact, yet packs some computing punch. It works tirelessly and does it silently to maintain the quiet of the medical facility. Finally, it provides integrators with the complete customization needed for seamless product branding.

Getting computing power into a compact package is no easy task, and the Intel® i7-7700T long-term support CPU does the trick. It provides the horsepower for delivering smooth graphics at up to 4Kx2K and supporting the various I/O. The slim computer design of the system makes it perfect for integrating into the mirror therapy system where there's not much space inside. Other powerful features include four USB 3.0 ports that connect to high-definition cameras, support for up to two 4K screens, and Wi-Fi through a mini PCIe card.

Going fanless is the key to a noise-free embedded computer suitable



for a medical office. The NDiS B537 does this without sacrificing computer performance, while harnessing the advantages of keeping harmful dust out of the system, thereby increasing system life. Importantly, the I/O combination is just right for this application, providing just the right balance of extras for reliable operation, while still keeping costs in check. Amongst the external connectors, there's HDMI to connect to the display (multi-display support available), RS-232 for console management, USB for maintenance, USB for camera movement detection, and LAN and Wi-Fi that allow content management.

Great products need great branding, and that brand consistency runs through every detail of the product. To give the customer full control over their branding, the BIOS is set to show the customer's logo and branding, showing their own logo right from the time the mirror therapy system is turned on. Beyond hardware considerations, this small step is the icing on the cake that transforms a potentially "hack" retrofit into a fully integrated, seamless system. On top of that, NEXCOM offers a wide range of flexible services to customize many different aspects of the hardware.

The NDiS B537 is the ideal computer for a mirror therapy system and for other medical machine integration. Small and slim design fits almost everywhere, while still having ample processing power. The reliable fanless computer design keeps out dust and makes no noise that could disrupt the quiet of medical facilities. All of this comes in a fully customized package for the ultimate polished user experience.

NDiS B537

- 7th Generation Intel® Core™ processor
- Support HDMI 2.0 output (4Kx2K/60Hz support)
- Compact and slim design (H: 33mm)
- Support socket type CPU up to 35W
- NGFF/mini-PCIe slot support Wi-Fi and 4G module



Drive-Thru

NEXCOM Makes Drive-Thru Coffee Quick and Easy

For urban dwellers, speed is the name of the game. The less time the dweller waits for food and drinks, the better the impression of the restaurant - and customer service scores. It's no wonder that drive-thru services have been such a blessing to customers, especially during the pandemic, as it simultaneously reduces person-to-person contact and promotes touchless, safe ordering. In Taiwan, a well-known coffee chain tasked NEXCOM to help with its drive-thru rollout to replicate its impeccable in-store service.

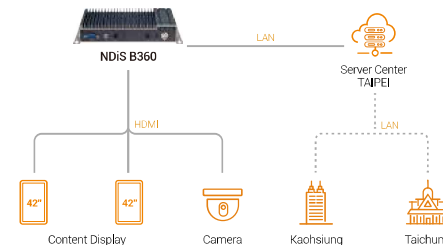
First, the drive-thru system needed to link to display boards that duplicated and presented information that was available in-store, also with eye-catching graphics. The system also needed to support video cameras to view passengers as soon as they drove up to the display boards. Furthermore, the coffee chain wanted a system that could quickly and accurately process information so that the drive-thru customer service experience was on par with in-store.

NEXCOM came to the rescue with its powerful, high-performance digital signage player NDiS B360. The latest 11th Generation

Intel® Core™ processor and integrated UHD or Iris® X graphics engine (depending on CPU) allowed the box player to push information via HDMI or DP quickly and dynamically to ordering displays with rich 4K visuals. For the coffee chain's convenience, NDiS B360 also had an array of I/O interfaces to support peripherals, such as video cameras.

Offsite and remote management was a breeze with NEXCOM's embedded computer. It could connect through one of two LAN ports to upload and download from the Taipei server center, no matter where the store was. For peace of mind, it even included Intel's vPro management platform to control the computer remotely in case of emergencies and system failures.

Finally, cementing its practicality for drive-thru systems, the NDiS B360's thermal design and operating temperature of -20 to 60°C allowed the embedded computer to stand in semi-outdoor environments. At the same time, its fanless construction meant that operations were noise-free. All of these customer-centric features are just some of the many reasons NEXCOM has become the choice partner for the restaurant industry.



NDiS B360



- 11th Generation Intel® Core™ (Tiger Lake-UP3) processor SoC
- Dual 4K @ 60Hz display output, DP++, HDMI 2.0
- Support 4K @ 60Hz eDP display output
- Dual LAN ports and 4 x USB 3.0 ports for easy connection
- Compact and slim design (H: 35mm)
- Onboard M.2 2280 Key M with PCIe signal for storage modules
- Onboard M.2 2230 Key E for optional Wi-Fi modules
- Support extended temperature for outdoor application



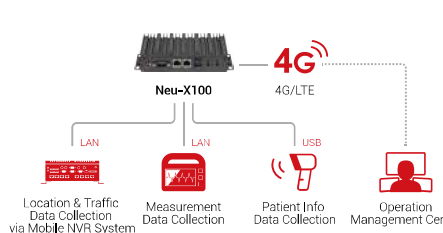
IoT Gateway

Neu-X100 Powers IoT Gateway for Mobile Health Clinic Bus in Japan

Japan's "super-aging" society is straining its healthcare system. Currently, over 65s make up 29% of the population, but by 2050 that number is expected to reach 39%. The healthcare challenges for this aging population include increasing health costs, increased burden on medical workers, and a shortage and uneven distribution of doctors in rural areas. As a part of the Japan Revitalization Strategy 2016, Shinzo Abe announced revolutionary healthcare measures, including big data for diagnosis, new drugs, and medical devices; personalized healthcare with IoT; and improved quality and productivity of nursing care with technologies such as robots and sensors.

Our client, a major Japanese electronics brand, was tasked with outfitting mobile health clinics (MHCs) to bring health services to people who need them. Integrating the MHC medical devices into the broader digital health records system required an embedded computer to serve as the IoT gateway to their private cloud. Although slated for use in a vehicle, they didn't need the vibration or shock resistance typically required for in-vehicle use. This IoT platform needed to provide a suitable set of core functions, include connectors for external devices, and connect to their private cloud.

Featuring an Intel® Apollo Lake N3350/N4200/J3455 processor and up to 8 GB of memory, the Neu-X100 fanless computer starts with just the right balance of power required for stable operation. The compact size makes it a perfect choice for the space-limited environment in an MHC. It's also ideally designed for use in IoT



applications in controlled indoor environments, perfect for an IoT platform that serves as a gateway in an MHC.

The primary functions needed for this MHC were connections to the x-ray machine, barcode scanner, and portal to the internet through 4G. The Neu-X100 has two RJ-45 GbE ports that collect the measurement data from medical devices and connect to the NVR system that collects traffic and location information. There are two USB 3.0 ports for peripheral devices, and in this instance connected to the barcode scanner used to scan people's health cards. Finally, a mini-PCIe LTE add-on card, a sim card slot on the mainboard, and antennas connected through two antenna holes already provided in the casing provided the 4G internet connection.

Beyond basic hardware setup, proven compatibility with major cloud providers can mean the difference between weeks of headaches and drama trying to set up a custom solution and simply plugging into existing reliable systems. In this regard, the Neu-X100 is Microsoft Azure certified and uses Windows 10 IoT for seamless integration into their current systems.

The Neu-X100 is a no-brainer for IoT gateway setup with Microsoft Azure. It sports a processor more than capable of handling the expected load while using only a minimal amount of power and providing sufficient peripherals for most applications. The Neu-X100 provided the best balance of cost and performance for our client, making installation and integration quick and simple.

Neu-X100

- Intel® Celeron® (Apollo Lake) N3350/N4200/J3455 processor
- 3.5" MB size as slim chassis design
- Support HDMI 2.0 output
- Fanless design
- mini-PCIe slot support Wi-Fi and LTE module



Bus Stop Display

NDiS B560 Introducing Better Ways for Bus Stop Displays

For public transportation users, convenience is of utmost importance, as well as saving time and money. These needs are especially crucial when taking buses, which are subject to traffic delays and passenger-related issues. To help bus users stay informed of statuses while presenting announcements and news as they wait, passenger information display systems (PIDS) that integrate all of the above information have become welcome additions to many transportation agencies. A Hong Kong bus company was one such agency that looked to enhance its passengers' travel experiences.

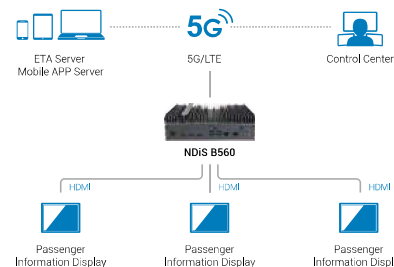
The bus company had three major needs. First, the passenger display system needed to be appealing enough, visually and content-wise, to capture travelers' attention. Secondly, it needed to automate the processes of updating passengers frequently with announcements and news items. Finally, the company wanted to generate additional revenue streams via in-bus promotions and advertisements.

NEXCOM provided the answer in its NDiS B560 fanless computer,

perfect fit for bus stops' PIDS with its set of cutting-edge features. The box PC integrated a combination of advanced 9th and 8th Generation Intel® Core™ processors and UHD 630 graphic engines with three independent 4K2K 60Hz display outputs to bring content powerfully to life. The thermal design and support for extended operating temperatures (-20~60°C) made it suitable for bus stops' semi-outdoor environments. Moreover, the compact and slim design meant that it could fit in the stops' limited spaces.

The NDiS B560 also supported 5G and Wi-Fi meaning that it could connect with the control center and update information in real time, pushing content such as announcements and news items to bus stop displays, and advertisements and promotions to in-vehicle screens.

With an assortment of visual solutions, NEXCOM continues to empower transportation agencies with tools to enhance and enrich the customer experience. NEXCOM strives to integrate all of the newest advancements in its solutions to encourage the continued development of the smart city.



NDiS B560

- Support 9/8th Gen Intel® Core™ i9/i7/i5/i3 LGA socket type embedded processor, up to 35W
- Intel® Q370
- Intel® integrated UHD 630 graphic engine
- Support 3 independent 4K2K 60Hz display output
- Support 1 x 2.5" SATA HDD
- 3 x HDMI 2.0, 6 x USB 3.0, 2 x GbE LAN, 4 x COM, 1 x Line-out, 1 x Mic-in
- Support M.2 Key B/E/M
- Support extended temperature -20~60°C



Box Computer

Edge Computing System

Model				
	Neu-X100	Neu-X101	Neu-X300	Neu-X300-F65
CPU	Intel® Celeron® N3350 Intel® Celeron® J3455	Intel® Celeron® J3455	8th Gen Intel® Core™ (socket, 35W)	8th Gen Intel® Core™ (socket, 65W)
Chipset	-	-	Intel® Q370 /H310 PCH	Intel® Q370 PCH
Graphics	Intel® HD 500 Graphics	Intel® HD 500 Graphics	Intel® UHD Graphics 630	Intel® UHD Graphics 630
Memory	1 x DDR3L SO-DIMM 8GB max.	1 x DDR3L SO-DIMM 8GB max.	2 x DDR4 SO-DIMM 32GB max.	2 x DDR4 SO-DIMM 32GB max.
Gigabit LAN	2	2	2	2
WLAN	Optional	Optional	Optional	Optional
Hard Disk Interface	-	-	-	-
Flash Storage	M.2 2242 Key M [SATA]	M.2 2242 Key M [SATA]	M.2 2280 Key M [SATA/PCIe x4]	M.2 2280 Key M [SATA/PCIe x4]
Display Output	2 x HDMI2.0	2 x HDMI1.4	3 x HDMI 2.0 (Q370) 2 x HDMI 2.0 (H310)	3 x HDMI 2.0
Display Resolution Max.	4096 x 2160 60Hz	3840 x 2160 30Hz	4096 x 2160 60Hz	4096 x 2160 60Hz
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 (pin header)
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)	1 x RS232/422/485 2 x RS232
USB 2.0	4 (internal)	2 (edge) 2 (internal)	4 x for H310 (internal) 6 x for Q370 (internal)	6
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 2230 Key E	1 x M.2 2230 Key E
Operating Temp.	-5°C~50°C	-5°C~50°C	-5°C to 45°C	0°C to 50°C
DC Input	19V DC incl. AC/DC power adapte	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 220 x 46.8
OS Support	Win10/Linux	Win10/Linux	Win10/Linux	Win10/Linux





Box Computer




Visual Edge Computer

Model				
	Neu-X302	NDiS B535	NDiS B537	NDiS B537-I
CPU	8th Gen Intel® Core™ (socket, 35W)	6th Gen Intel® Core™ (socket, 35W)	7/6th Gen Intel® Core™ (socket, 35W)	7/6th Gen Intel® Core™ (Socket, 35W)
Chipset	Intel® Q370 /H310 PCH	Intel® Q170	Intel® H110	Intel® Q170
Graphics	Intel® UHD Graphics 630	Intel® HD 530 Graphics	Intel® HD 630 Graphics	Intel® HD 630 Graphics
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.
Gigabit LAN	2	2	1	2
WLAN	Optional	Optional	Optional	Optional
Hard Disk Interface	-	1 x 2.5" SATA	1 x 2.5" SATA	1 x 2.5" SATA
Flash Storage	M.2 2280 Key M [SATA/PCIe x4]	M.2 2242/2280 Key M	-	-
Display Output	3 x HDMI 2.0 (Q370) 2 x HDMI 2.0 (H310)	3 x HDMI 2.0	1 x HDMI 1.4 1 x HDMI 2.0	1 x HDMI 1.4 1 x HDMI 2.0 1 x DisplayPort
Display Resolution Max.	4096 x 2160 60Hz	4096 x 2160	3840 x 2160	3840 x 2160
Output Channel	3 independent or clone	3 independent or clone	2 independent or clone	3 independent or clone
Video Capability (Hardware Decode)	Hardware decode: MPEG-2 (H.262), MPEG-4(H.264), JPEG/MJPEG, HEVC(H.265), VC-1, VP8, VP9	MPEG2,VC1, VP8, H.264, H/265	MPEG2,VC1, VP9, H.264, H/265	MPEG2,VC1, VP9, H.264, H/265
Audio Output	1 x Line-out 1 x Mic-in 1 x Speaker (internal)	1 x Line-out, 1 x Mic-in	1 x Line-out, 1 x Mic-in	1 x Line-out, 1 x Mic-in
COM Port	1 x RS232/422/485 2 x RS232 (Internal)	4 x RS232 2 x RS232 (internal)	2	2
USB 2.0	4x for H310 (Internal) 6x for Q370 (Internal)	2 (internal)	2 (internal)	2 (internal)
USB 3.0	4	6	4	4
Expansion Slot	1 x M.2 2230 Key E	1 x mini-PCIe 1 x M.2 2230 Key E	1 x mini-PCIe 1 x M.2 2230 Key E	1 x mini-PCIe 1 x M.2 2230 Key E
Operating Temp.	-5°C to 45°C	0°C to 40°C	-10°C to 45°C	-10°C to 45°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
Dimension W x D x H (mm)	190 x 200 x 64.3	294 x 198 x 52	295 x 189.9 x 33	295 x 189.9 x 33
OS Support	Win10/Linux	Win7/Win8.1/WES8/ Win10/ Linux	Win10/Linux	Win10/Linux

Box Computer




Visual Edge Computer

Model				
	NDiS B560	NDiS B560S	NDiS B360	NDiS B328-KI3
CPU	9/8th Gen Intel® Core™ (socket, 35W)	9/8th Gen Intel® Core™ (socket, 35W)	Intel® Core™ i5-1145G7E, Intel® Core™ i3-1115G4E	Intel® Core™ i3-7100U
Chipset	Intel® Q370	Intel® H310	-	-
Graphics	Intel® HD 630 Graphics	Intel® HD 630 Graphics	Intel® Iris® X Graphics (on i5), Intel® UHD Graphics for 11th Gen Intel® processors (on i3)	Intel® HD 620 Graphics
Memory	2 x DDR4 SO-DIMM 32GB max.	2 x DDR4 SO-DIMM 32GB max.	1 x DDR4 SO-DIMM 32GB max.	2 x DDR4 SO-DIMM 32GB max.
Gigabit LAN	2	2	2	1
WLAN	Optional	Optional	Optional	Optional
Hard Disk Interface	1 x 2.5" SATA	1 x 2.5" SATA	-	1 x 2.5" SATA
Flash Storage	M.2 2280 Key M (SATA/PCIe x4)	M.2 2280 Key M (SATA)	M.2 2280 Key M (PCIe x4)	M.2 2280 Key M (SATA/PCIe x4)
Display Output	3 x HDMI 2.0	2 x HDMI 2.0	1 x DP++ 1 x HDMI 2.0	2 x HDMI 1.4
Display Resolution Max.	4096 x 2160	4096 x 2160	HDMI: 4096 x 2160 DP++: 4096 x 2304	3840 x 2160
Output Channel	3 independent or clone	2 independent or clone	2 independent or clone	2 independent or clone
Video Capability (Hardware Decode)	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	AV1, VP9 8/10/12bit, H.265/HEVC 8/10/12 bit, H.264/AVC, MPEG2	MPEG1, MPEG2, VP8, VC1, H.264, H.265
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 (internal) 1 x Speaker (internal)	1 x Line-out, 1 x Mic-in
COM Port	1 x RS232/422/485 3 x RS232	1 x RS232/422/485 3 x RS232	2	1
USB 2.0	-	2	4 (internal)	-
USB 3.0	6	4	4	6
Expansion Slot	1 x M.2 3042/3052 Key B 1 x M.2 2230 Key E	1 x M.2 3042/3052 Key B 1 x M.2 2230 Key E	1 x M.2 2230 Key E	1 x M.2 2230 Key E
Operating Temp.	-20°C to 60°C	0°C to 40°C	-20°C~60°C	-20°C~50°C with SSD
DC Input	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
Dimension W x D x H (mm)	238 x 192 x 67.29	238 x 192 x 39	200 x 132.6 x 36	224.34 x 147.4 x 35
OS Support	Win10/Linux	Win10/Linux	Win10	Win10

Model					
	NDiS B336R	NDiS B337	NDiS B338	NDiS B115	NDiS B116
CPU	Intel Atom® E3950	Intel® Celeron® J3455	Intel® Celeron® J6412	Rockchip RK3288	Rockchip RK3399
Chipset	-	-	-	Embedded	Embedded
Graphics	Intel® HD 505 Graphics	Intel® HD 500 Graphics	Intel® UHD Graphics for 10th Gen Intel® processors	Mali-T760 (embedded)	Mali-T864 (embedded)
Memory	2 x DDR3L SO-DIMM 32GB max.	1 x DDR3L SO-DIMM 8GB max.	2 x DDR4 SO-DIMM 32GB max.	DDR3 2GB onboard	DDR4 2GB onboard
Gigabit LAN	1	2	2	1	2
WLAN	Optional	Optional	Optional	Onboard 802.11 b/g/n	Optional
Hard Disk Interface	1 x 2.5" SATA	-	-	-	-
Flash Storage	-	M.2 2242 Key M (SATA)	M.2 2280 Key M (PCIe x4)	eMMC 16GB onboard	eMMC 8GB onboard
Display Output	2 x HDMI 1.4	2 x HDMI 1.4	3 x HDMI 2.0	1 x HDMI 2.0	1 x HDMI 1.4 1 x HDMI 2.0
Display Resolution Max.	3840 x 2160	3840 x 2160 30Hz	4096 x 2160	3840 x 2160	3840 x 2160/ 4096 x 2160 (single display)
Output Channel	2 independent or clone	2 independent or clone	3 independent or clone	1 independent	2 clone
Video Capability (Hardware Decode)	MPEG1, MPEG2, VP8, VC1, H.264, H.265	HEVC (H.265), H.264, MVC, VP8, VP9, MPEG2, VC-1, WMV9, JPEG/MJPEG	H.264/AVC, MPEG-2, VC-1, JPEG/MJPEG VP8, VP9, HEVC 8, 10-bit	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
Audio Output	1 x Line-out, 1 x Mic-in	1 x Line-out 1 x Mic-in (internal) 1 x Speaker (internal)	1 x Line-out 1 x Mic-in 1 x Speaker (internal)	1 x Line-out	Line-out, Mic-in, Speaker (internal)
COM Port	1	1 x RS232/422/485 1 x RS232	1 x RS232/422/485 3 x RS232	1 (UART)	1
USB 2.0	-	2 (edge) 2 (internal)	5	2	1
USB 3.0	5	2	1	-	1
Expansion Slot	1 x mini-PCIe 1 x M.2 2230 Key E	1 x mini-PCIe	1 x mini-PCIe 1 x M.2 3042/3052 Key B	-	1 x mini-PCIe
Operating Temp.	-20°C to 60°C	-20°C~60°C	-20°C~60°C	-10°C to 50°C	-20°C to 60°C
DC Input	19V DC incl. AC/DC power adapter	12V DC incl. AC/DC power adapter	12~24V DC incl. AC/DC power adapter	5V DC incl. AC/DC power adapter	12V DC incl. AC/DC power adapter
Dimension W x D x H (mm)	259 x 147.4 x 21	200 x 117.6 x 40	200 x 152.6 x 39.8	118 x 101 x 23.6	179.5 x 112.5 x 39.5
OS Support	Win10/Linux	Win10/Linux	Win10	Android 4.4	Android 7.1





Box Computer

Multi-display Computing System

Model			
	NDiS B866	NDiS V1000	NDiS V1100
CPU	6th Gen Intel® Core™ (socket type W)	AMD Ryzen™ Embedded V1605B Quad Core	Intel® Core™ i5-1145G7E/ Intel® Core™ i3-1115G4E
Chipset	Intel Q170 PCH	-	-
Graphics	AMD Radeon™ E8870	AMD Radeon™ Vega 8	Intel® Iris® X Graphics
Memory	4 x DDR4 SO-DIMM, up to 64GB	2 x DDR4 SO-DIMM, up to 32GB	2 x DDR4 SO-DIMM, up to 32GB
Gigabit LAN	2	2	2
WLAN	-	-	-
Hard Disk Interface	2 x 2.5" SATA	-	-
Flash Storage	M,2 2242/2280 Key M (SATA/PCIe x4)	M,2 2242/2280 Key M (SATA)	M,2 2280 Key M (SATA/PCIe x4)
Display Output	6 x HDMI 2.0	4 x HDMI 2.0	4 x HDMI 2.0
Display Resolution Max.	3840 x 2160	4096 x 2160	4096 x 2160
Output Channel	6 independent, expanded or clone	4 independent, expanded or clone	4 independent, expanded or clone
Video Capability (Hardware Decode)	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	Hardware decode: 5K60 10b 4:4:4 HEVC/NP9/SCC 8K60 12b 4:2:0 HEVC/NP9/SCC 8K30 10b 4:2:0 AV11 4K60 8b 4:2:0 AVC
Audio Output	1 x S/PDIF, 1 x Mic-in, 1 x Line-out	1 x MIC-in, 1 x Line-out	1 x MIC-in, 1 x Line-out
COM Port	2	1 x RS232/422/485 3 x RS232 (internal)	1 x RS232/422/485 1 x RS232
USB 2.0	N/A	2 (internal)	4 (internal)
USB 3.0	6	4	3
Expansion Slot	1 x mini-PCIe 1 x M,2 1630/2230 Key E	1x M,2 2230 Key E	1x M,2 2230 Key E
Operating Temp.	0°C to 40°C	0°C to 40°C	0°C to 45°C
DC Input	300W ATX power supply	12V DC	12V DC
Dimension W x D x H (mm)	428 x 344 x 44	190 x 200 x 54,4	190 X165 X 48
OS Support	Win7/Win8,1/Win10/Linux	Win10/Linux	Win10/Linux



Touchscreen Computer

Embedded Touchscreen Computer (Intel® Celeron®)

Model					
	XPPC 10-100	XPPC 16-100	XPPC16-101	XPPC 22-100	XPPC 24-100
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	Intel® Celeron® J3455 Quad Core, 1.50 GHz
LCD Size	10.1", 16:10	15.6", 16:9	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	FHD, 1920 x 1080
Touch Screen	10-point P-Cap	10-point P-Cap	10-point P-Cap	10-point P-Cap	10-point P-Cap
Touch Light Transmission	90%	90%	90%	90%	90%
Luminance (cd/m2)	Panel : 400 XPPC touch : 360	Panel : 500 XPPC touch : 450	Panel : 450 XPPC touch : 405	Panel : 250 XPPC touch : 225	Panel : 350 XPPC touch : 315
Contrast Ratio	800	600	700	1000	1000
LCD Color	16.7M	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)	89(U), 89(D), 89(L), 89(R)
Backlight	LED	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.	1 x DDR3L SO-DIMM 8GB max.
Storage	M,2 2242 Key M	M,2 2242 Key M	M,2 2242 Key M	M,2 2242 Key M	M,2 2242 Key M
2nd Display	HDMI 2.0	HDMI 2.0	2 x HDMI 1.4	HDMI 2.0	HDMI 2.0
Gigabit LAN	2	2	2	2	2
USB 2.0	-	-	2	-	-
USB 3.0	2	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	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	1 x mini-PCIe 1 x Sim card slot
Housing Material	Metal	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)	VESA 100 x 100mm, Panel mount (optional kit), Open frame (optional kit)
Power Input	19V DC	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	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	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	-20°C to 60°C
Operating Humidity	10%~90% non-condensing	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	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	CE: EN55032/35 FCC Class A
Cut-out Size (W x H) (mm)	246,5 x 164,5 (horizontal)	370,5 x 240 (horizontal)	370,5 x 240 (horizontal)	508 x 303 (horizontal)	546,7 x 326,1 (horizontal)
Dimension (W x H x D) (mm)	260,3 x 178,3 x 44,7 (horizontal)	382,2 x 251,4 x 51,9 (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	Win10/Linux
Net Weight	2 kg	3 kg	3 kg	5 kg	6 kg


Touchscreen Computer

Embedded Touchscreen Computer (Intel® Core™)







Model	 XPPC 10-200	 XPPC 16-200
CPU	Intel® Core™ i5-1145G7E Intel® Core™ i3-1115G4E	Intel® Core™ i5-1145G7E Intel® Core™ i3-1115G4E
LCD Size	10.1", 16:10	15.6", 16:9
Max Resolution	WXGA, 1280 x 800	FHD, 1920 x 1080
Touch Screen	10-point P-Cap	10-point P-Cap
Touch Light Transmission	90%	90%
Luminance (cd/m2)	Panel : 400 XPPC touch : 360	Panel : 450 XPPC touch : 405
Contrast Ratio	800	700
LCD Color	16.7M	16.7M
Viewing Angle	89[U], 89[D], 89[L], 89[R]	89[U], 89[D], 89[L], 89[R]
Backlight	LED	LED
Memory	1 x DDR4 SO-DIMM 32GB max.	1 x DDR4 SO-DIMM 32GB max.
Storage	M.2 2280 Key M PCIe	M.2 2280 Key M PCIe
2nd Display	HDMI 2.0	HDMI 2.0, DP++
Gigabit LAN	2	2
USB 3.0	4	4
COM Port	1 x RS232/422/485	1 x RS232/422/485
Expansion	1 x M.2 2230 Key E	1 x M.2 2230 Key E
Housing Material	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)
Power Input	12V DC	12V DC
Power Adapter	60W AC/DC power adapter with lock type	96W AC/DC power adapter with lock type
Operating Temp.	0°C to 50°C	0°C to 50°C
Storage Temp.	-20°C to 60°C	-20°C to 60°C
Operating Humidity	10%~90% non-condensing	10%~90% non-condensing
IP Level	IP65 on the front	IP65 on the front
Certification	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)
Dimension (W x H x D) (mm)	260,3 x 178,3 x 50,4 (horizontal)	382,2 x 251,4 x 51,9 (horizontal)
OS Support	Win10/Linux	Win10/Linux
Net Weight	2 kg	3 kg

Embedded Computing Board

Embedded Computing Board





Model	 X100
Type	3.5
CPU	Intel® Celeron® J3455 Intel® Celeron® J3455
Chipset	-
Graphics	Intel® HD 500 Graphics
Memory	1 x DDR3L SO-DIMM 8GB max.
Gigabit LAN	2
WLAN	Optional
Hard Disk Interface	-
Flash Storage	M.2 M-key 2242 (SATA)
Display Output	2 x HDMI2.0 1 x LVDS
Display Resolution Max.	4096 x 2160 60Hz
Video Capability (Hardware Decode)	Hardware decode:HEVC (H.265), H.264, MVC, VP8, VP9, MPEG2, VC-1, WMV9, JPEG/MJPEG
Audio Output	1 x Line-out pin header
COM Port	1 x RS232/422/485 1 x RS232 (pin header)
USB 2.0	4 (Internal)
USB 3.0	2
Expansion Slot	1 x Mini-PCIe (SIM socket)
Operating Temp.	-5°C to 60°C
DC Input	12V / 19V DC
Dimension W x D x H (mm)	146 x 102
OS Support	Win10 / Linux

Embedded Computing Board

Model	 X101	 X200	 X300	 X302	 V1000	 V1100
Type	3.5"	3.5"	miniITX	miniITX	miniITX	Epic
CPU	Intel® Celeron® J3455	11th Gen Intel® Core™ (SoC, 15W)	8th Gen Intel® Core™ (Socket, 35W)	8th/9th Gen Intel® Core™ (Socket, up to 65W)	AMD Ryzen™ V1605B Quad Core	Intel® Core™ i5-1145G7E Intel® Core™ i3-1115G4E
Chipset	-	-	Intel® Q370/H310 PCH	Intel® Q370/H310 PCH	-	-
Graphics	Intel® HD 500 Graphics	Intel® HD 630 Graphics on i3, Intel® Iris® X® Graphics on i5	Intel® UHD Graphics 630	Intel® UHD Graphics 630	AMD Radeon Vega 8	Intel® Iris® X®
Memory	1 x DDR3L SO-DIMM 8GB max.	1 x DDR4 SO-DIMM	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	2	2	2	2	2	2
WLAN	Optional	Optional	Optional	Optional	Optional	Optional
Hard Disk Interface	-	-	1 x 2.5" SATA	2 x 2.5" SATA	-	-
Flash Storage	M.2 2242 Key M (SATA)	M.2 2242/2280 Key M (PCIe x4)	M.2 2280 Key M (SATA/PCIe x4)	M.2 2242/3042 Key B (if 3G/4G module not in use)	M.2 2242/2280 (SATA)	M.2 2280 Key M (SATA/PCIe x4)
Display Output	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)	1 x VGA 1 x HDMI1.4 1 x LVDS (Internal)	4 x HDMI2.0	4 x HDMI 2.0
Display Resolution Max.	3840 x 2160 30Hz	4096 x 2304 60Hz	4096 x 2160 60Hz	4096 x 2160 30Hz	4096 x 2160 60Hz	4096 x 2160 60Hz
Video Capability (Hardware Decode)	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	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	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 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	1 x Line-out 1 x Mic-in 1 x Speaker (pin header)	1 x MIC-in, 1 x Line-out	1 x MIC-in, 1 x Line-out
COM Port	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)	3 x RS232/422/485 3 x RS232 (pin header)	1 x RS232/422/485 3 x RS232 (pin header)	1 x RS232/422/485 1 x RS232
USB 2.0	2 (edge) 2 (pin header)	4 (pin header)	6 x for Q370 (pin header) 4 x for H310 (pin header)	6 (pin header, Q370) 4 (pin header, H310)	2 (pin header)	4 (Internal) 1 (edge)
USB 3.0	2	4	4	4	4	3
Expansion Slot	1 x mini-PCIe (SIM socket)	1 x M.2 2230 Key E	1 x M.2 2230 Key E, 1x PCIe x16	1 x M.2 2230 Key E, 1 x PCIe x16	1 x M.2 2230 Key E, 1 x PCIe x8	1 x M.2 3052 Key B, 1 x mini-PCIe
Operating Temp.	-5°C to 60°C	-20°C to 60°C	-5°C to 60°C	-5°C to 60°C	0°C to 60°C	0°C to 60°C
DC Input	12V / 19V DC	12V DC	12V DC	12V DC	12V DC	12V DC
Dimension W x D x H (mm)	146 x 102	146 x 102	170 x 170	170 x 170	170 x 170	165 x 114
OS Support	Win10 / Linux	Win10 / Linux	Win10 / Linux	Win10 / Linux	Win10 / Linux	Win10 / Linux


Modular PC

OPS Smart Display Computer

Model				
Type	OPS	OPS+	OPS	OPS
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® HD Graphics 530	Intel® UHD Graphics 600	Intel® HD Graphics 630	Intel® HD Graphics 630
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 2242 Key M (SATA)	M.2 2280 Key M (SATA/PCIe x4)	M.2 2280 Key M (SATA/PCIe x4)
Display Output	1 x HDMI 2.0 1 x Mini DP 1 x TMDS (HDMI 2.0) (via JAE connector) 1 x JAE connector	1 x Mini DP 1 x TMDS (HDMI 2.0) (via JAE connector) 1 x DP (via FX18)	1 x DP 1 x TMDS (HDMI 2.0) (via JAE connector)	1 x HDMI 1 x TMDS (HDMI 2.0) (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, VP9, 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	2 x 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	2 x 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 2230 Key E	1 x M.2 2230 Key E	1 x M.2 2230 Key E
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/WESB/Win10/Linux	Win10/Linux	Win10/Linux	Win10/Linux

Edge AI Computer

Smart Display Module

Model	
Type	SDM-L
Model	NDiS S538
Type	SDM-L
CPU	8th Gen Intel® Core™ (socket, 35W)
Chipset	Intel® Q370 PCH
Graphics	Intel® HD Graphics 630
Memory	2 x DDR4 SO-DIMM, up to 32GB
Gigabit LAN	1
WLAN	-
Hard Disk Interface	-
Flash Storage	M.2 2280 Key M (SATA/PCIe x4)
Display Output	1 x HDMI 1 x TMDS (HDMI 2.0) (via JAE connector)
Display Resolution Max.	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
Audio Output	1 x Line-out, 1 x Line-out (via JAE connector)
COM Port	1 x RS232 (COM2) 1 x TX/RX (via JAE connector)
USB 2.0	2 x edge 2 x via JAE connector
USB 3.0	2 x edge 1 x via JAE connector
Expansion Slot	1 x M.2 2230 Key E
Operating Temp.	0°C to 45°C
Power Type	12-19V DC (via JAE connector)
Dimension W x D x H (mm)	200 x 119 x 30
OS Support	Win10 / Linux

Edge AI Computer

Model			
Type	AIEdge-X®300	AIEdge-X®300-RTX30	AIEdge-X®500
Model	AIEdge-X®300	AIEdge-X®300-RTX30	AIEdge-X®500
CPU	8th Gen Intel® Core™ (socket, 65W max.)	8th Gen Intel® Core™ (socket, 65W max.)	8th/9th Gen Intel® Core™ (socket, 95W max.)
Chipset	Intel® Q370 PCH	Intel® Q370 PCH	Intel® Q370 PCH
Graphics	Intel® UHD Graphics 630	Intel® UHD Graphics 630	Intel® UHD Graphics 630
Memory	DDR4 SO-DIMM, up to 32GB	DDR4 SO-DIMM, up to 32GB	DDR4 SO-DIMM, up to 32GB
Gigabit LAN	2	2	2
WLAN	Optional	Optional	-
Hard Disk Interface	1 x 2.5" SATA	1 x 2.5" SATA	4 x 2.5" SATA (Hot-Swap)
Flash Storage	M.2 2280 Key M (SATA/PCIe x4)	M.2 2280 Key M (SATA/PCIe x4)	M.2 2280 Key M (SATA/PCIe x4)
Display Output	3 x HDMI 2.0	3 x HDMI 2.0	1 x HDMI 2.0
Display Resolution Max.	4096 x 2160	4096 x 2160	4096 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: MPEG-2 (H.262), MPEG-4(H.264), JPEG/MJPEG, HEVC(H.265), VC-1, VP8, VP9
Audio Output	1x Line-out	1x Line-out	1x Line-out
COM Port	1 x RS232 1 x RS232/422/485 1 x RS232 (internal)	1 x RS232 1 x RS232/422/485 1 x RS232 (internal)	1 x RS232/422/485 3 x RS232 (internal)
USB 2.0	4 (internal)	4 (internal)	1 6 (internal)
USB 3.0	4	4	2
Expansion Slot	M.2 2230 Key E 1 x PCIe x16, two slot space	M.2 2230 Key E 1 x PCIe x16, two slot space	1 x PCIe x16, two slot space 1 x PCIe x4 slot 1 x PCI slot
Add-on Card Length (mm)	204mm max.	290mm max.	327mm max.
Operating Temp.	0°C to 45°C	0°C to 45°C	0°C to 45°C
Power Type	500W ATX power supply	850W ATX power supply	800W ATX power supply
Dimension W x D x H (mm)	360 x 250 x 85	360 x 335 x 85	290 x 360 x 150
OS Support	Win10/Linux	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 realtime 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 & II.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, Edge AI, and ODM Customization Services
MCS	Mobile Computing Solutions: Edge AI Telematics Computer, Vehicle Telematics Computer, Railway Computer, Vehicle Mount Computer, Vehicle Mount Display, In-Vehicle Networking, In-Vehicle HDMI Extender over IP
MHI	Medical and Healthcare Informatics: Total Solutions with a Variety of Medical IT Systems
NCS	Network and Communication Solutions: Cyber Security, HPC, Telecommunications, Storage, SDN/NFV, 5G, uCPE, ICS 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.

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