



*Committed to Customer Success*



Creating  
**Smarter** Business

**2024**

# Intelligent Platform & Services in Smart City Product Selection Guide

# Creating Smarter Business



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# Smart Edge in Smart City

Driving AI & Digital Transformation for a Better World

## 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 Healthcare

- Payment KIOSK
- Clinic Self-Check-in System
- AI-based predictive medicine

## 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

## 📍 Retail

- Drive Thru & Menu board
- Outdoor Signage
- Video Wall

## 📍 Energy

- Microgrid System
- Solar Energy Monitoring
- Wind Power Data Acquisition

## 📍 Roadside

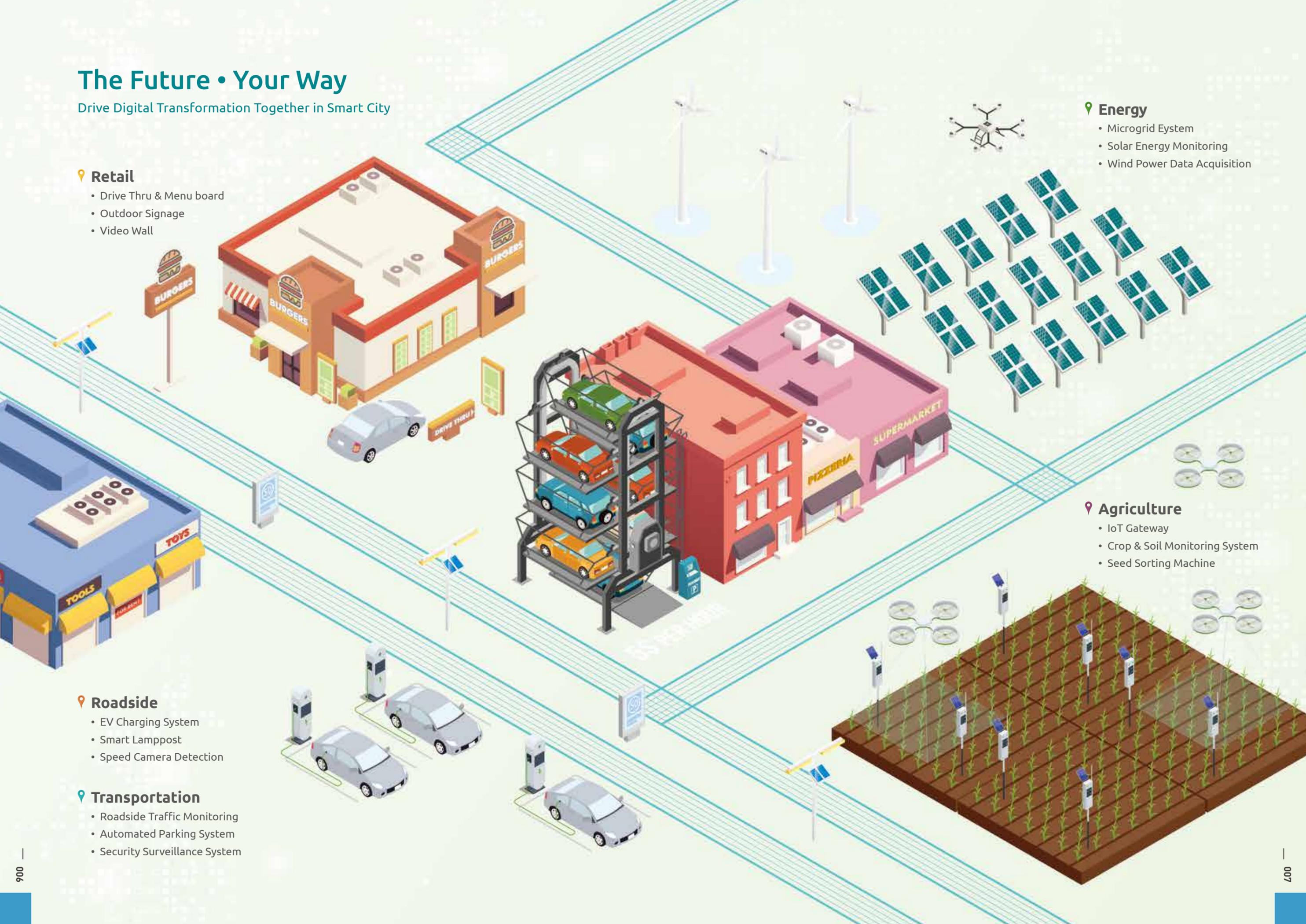
- EV Charging System
- Smart Lamppost
- Speed Camera Detection

## 📍 Transportation

- Roadside Traffic Monitoring
- Automated Parking System
- Security Surveillance System

## 📍 Agriculture

- IoT Gateway
- Crop & Soil Monitoring System
- Seed Sorting Machine



# Your Vision • Our Mission

Co-creating AI, IoT & 5G Solution

## Smart Building

- Access Control System
- Parking Lot System
- Elevator Information System

## Entertainment

- Gaming Machine
- IoT Gateway in Casino
- Advertising Signage

## Retail

- Digital Menu Board
- Self-service Kiosk
- Smart Vending Machine

## Healthcare

- Payment Kiosk
- Patient Information Display
- Clinic Self Check-in System
- Mirror Therapy System

## Transportation

- Ticketing Machine
- Passenger Information System
- Wayfinding Kiosk



## E-Gate System

### NEXCOM's Fanless Visual Edge Computer Recognizes You at the Border



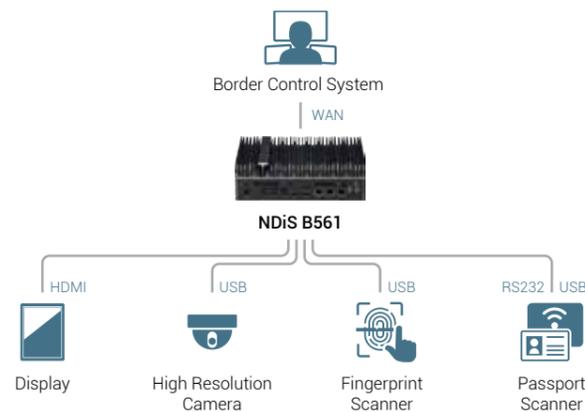
As we encounter consistent yearly global population growth and unexpected pandemic outbreak, automated border control solutions are becoming more desired than ever. Nowadays, for travelers to enter the border of their destination, they can undergo an identity verification process by AI recognition, together with biometric verification via passport, facial, and fingerprints at eGates. NEXCOM is committed to implement the 12th Gen Intel® Core™ processor and Intel® 600 series chipset designed fanless visual edge computers into airports and ports. When installed, this computer can reduce labor costs and minimize contact while enhancing efficiency and security; leading to a fulfilling traveler's experience.

When executed at customs, NEXCOM's NDiS B561 fanless visual edge computer provides travelers with an intuitive and convenient border crossing process. Depending on the setting, operators may request up to three HDMI ports for three 4k2k independent displays and eight USB 3.2 for cameras, fingerprint scanner, passport scanner, and other peripherals. As this fanless visual edge computer connects to the border control system via WAN, it utilizes either LAN, Wi-Fi 6E, 4G, 5G, and AI recognition technologies to validate the traveler's

identity from the cameras and scanners.

Powered by the 12th Gen Intel® Core™ processor, Intel® 600 series chipset, and Intel® integrated UHD Graphics 770 engine. The NDiS B561 handles challenging multimedia content and AI applications effortlessly via its high-speed computation capabilities. With practical I/Os, high-speed wireless technologies, AI recognition, and dependable technical support, it delivers an intuitive and reliable automated border control solution; significantly optimizing passenger flow.

Customer service has always been one of the utmost priorities for NEXCOM. Thus, the I/Os and chassis of NDiS B561 were customized to perfectly fit users' application demands. Beyond I/Os, BIOS can also be customized to set and display users' logos whenever this automated border control solution is booted up to promote brand recognition. NEXCOM's technical support team is always on duty to provide and assist customers in completing comprehensive system validation. The NDiS B561 is a reliable and efficient high-performance visual edge computer that maximizes convenience and safety, providing a pleasant journey for everyone.



#### NDiS B561

- Support 12th Gen Intel® Core™ i9/i7/i5/i3 LGA socket type embedded processor, up to 35W
- Intel® Q670E
- Intel® integrated UHD Graphic engine driven by X<sup>e</sup> architecture
- Support 3 independent 4K2K@60Hz display output. HDMI 2.1 resolution supports up to 8K@60Hz
- 1 x HDMI 2.1, 2 x HDMI 2.0
- 8 x USB 3.2, 4 x COM
- 1 x GbE LAN, 2 x 2.5G GbE LAN (PoE for B561-PoE)
- Support M.2 Key B/E/M
- Support extended temperature -20~60°C (B561 only)



## Mirror Therapy



### NEXCOM's Embedded Computer Digitalizes Conventional Rehabilitation Therapy

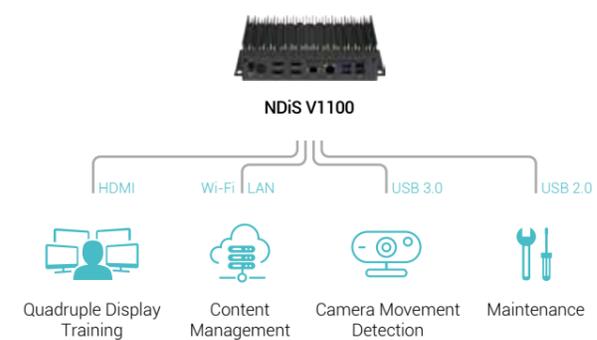
Video-based rehabilitation is to trick the patients' brain's neuroplasticity, used to attempt in improving one's motor function after a stroke. Initially, a mirror is used to fabricate a reflective illusion of the affected limb, creating positive visual feedback of its movements. Research has stated that as the motor cortex detects signs of potential relief, pain and paralysis were moderately reduced and improved respectively. To satisfy the best of both worlds, NEXCOM is tasked to implement the 11th Gen Intel® Core™ i7-1185G7E with built-in Iris Xe Graphic-based fanless embedded system in rehabilitation clinics. This compact and powerful embedded computer ensures utmost visual communication via a multi-display setup, convenient content management, and considerate customizable options.

Applied in rehab clinics, NEXCOM's compact and fanless NDiS V1100 is a powerful embedded computer that provides patients with lower limbs mirror therapy. Instead of using mirrors, several modern clinics digitalize their equipment, connecting up to three cameras via three USB 3.0 ports to deliver real-time information. Whereas, the three USB 2.0 ports are to perform maintenance through peripherals. A vibrant 4K@60Hz multi-display setup is supported through its four HDMI ports, three displaying the limb's different angles and the other presenting data for the therapist.

Depending on the circumstances, both wireless and LAN are provided to manage content information conveniently throughout the database. Other essential features include one Intel® GbE LAN for high-speed control center connection, one M.2 Key M for SSD, and one mini-PCIe slot for Wi-Fi or Bluetooth module.

For NEXCOM, service quality has always been a top priority. Thereby, to fulfill users' demands, customizable I/Os and mechanical design for better heat dissipation are offered on the NDiS V1100. Beyond I/Os, BIOS can also be customized to set and display customers' logos whenever the mirror therapy system is initiated; promoting brand recognition. With concerns for technical troubleshooting, NEXCOM's BIOS engineers and FAE are always on duty to offer full technical support for customers with any issues.

The NDiS V1100 is an excellent and silent fanless computer, perfectly suited for the quiet clinical environment. While being integrated snugly under screens, it handles clinical applications reliably and powerfully, delivering vivid 4K content onto a multi-display setup. With the processing power in enabling AI applications, it enhances and strengthens the healthcare system of rehab clinics.



#### NDiS V1100

- 11th Gen Intel® Core™ (Tiger Lake UP3) processor SoC
- Dual non-ECC DDR4 3200 SO-DIMM, support up to 32Gb
- 4 x HDMI 2.0, support 4K@60Hz
- Dual LAN ports and 3 x USB 3.0 ports
- Onboard M.2 2280 Key M with PCIe x4 signal for storage modules
- Onboard mini-PCIe for optional Wi-Fi or LTE modules
- Fanless design





## Dairy Farming

### Innovative Embedded Fanless Computer Transforms Dairy Farming

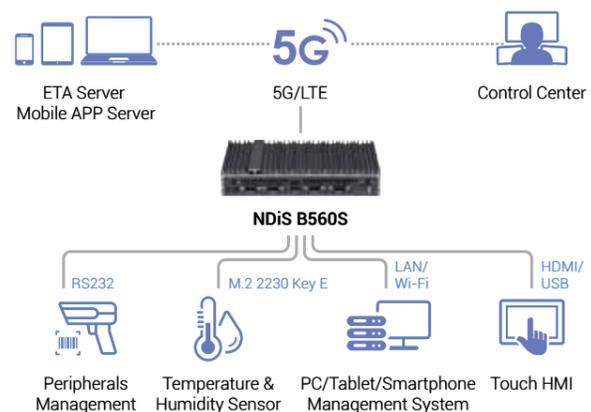
The dairy farming industry faces significant challenges in managing livestock and optimizing farm operations. A major hurdle is accurate cow monitoring, complicating precise record-keeping of identification, health status, milk yield, and food biosecurity. Current data collection and analysis rely on manual methods, hindering timely tracking and data-driven decision making. Lack of real-time data and insights leads to potential wastage and negatively impacts cow welfare and productivity. Addressing these challenges demands an innovative solution, and IoT gateway represents a promising approach for such advancements in the industry. NEXCOM's NDiS B560S, a slim, embedded fanless computer offers a comprehensive smart farming solution. It integrates with electronic and visual cow tags to enable accurate monitoring, automated data collection, nutrition analysis, and optimized resource allocation.

Powered by the Intel® Core™ i5-8500T processor, the NDiS B560S embedded fanless computer provides seamless connectivity, effectively enhancing cow health and performance through accurate identification and tracking of individual cows. The system facilitates real-time data access on breeding records,

health metrics, and milk production, arming operators with vital information to make informed decisions on nutrition, reproduction strategies, and necessary veterinary interventions for smart farming.

The IoT gateway also accommodates temperature and humidity sensors via M.2 2230 Key E, enabling anticipatory monitoring of environmental conditions, thus mitigating risks associated with heat stress and other potential adverse effects on cow health. With integrating LAN and Wi-Fi capabilities, along with an intuitive touch HMI interface, it permits farm operators to remotely oversee and control various farm aspects. Operators can access real-time data from RFID tags, receive immediate alerts, and make informed decisions from anywhere, significantly boosting efficiency and flexibility.

Leveraging the innovative NDiS B560S embedded fanless computer and cow tags, dairy farms can revolutionize operations, authenticate livestock data, and eliminate human errors associated with traditional paper records. This advanced traceability solution improves food safety, regulatory efficiency, resource allocation, and more.



#### NDiS B560S

- Support 8/9th Gen Intel® Core™ i3/i5/i7 LGA socket type embedded processor, up to 35W
- Intel® H310
- Intel® integrated UHD 630 graphic engine
- Support 2 independent 4K2K 60Hz display output
- Compact and slim design (H: 39mm)
- Support 1 x 2.5" SATA HDD
- 2 x HDMI 2.0, 4 x USB 3.0, 2 x USB 2.0, 2 x GbE LAN, 4 x COM, 1 x Line-out, 1 x Mic-in
- Support M.2 Key B/E/M
- Fanless design



## Facial Recognition

### Slim and Powerful Embedded Computer for Facial Recognition and Access Control

Businesses are keenly aware of the safety implications of people from different places gathering together and the increased likelihood of COVID-19 exposure. As social distancing, face masks, and temperature checks become a part of everyday life, businesses are facing a struggle to minimize the inconvenience temperature checks cause to customers. Manual temperature checks lead to long queues and waiting, so to keep lines moving smoothly, a stable, efficient, and touchless system - utilizing AI technology - is needed to measure temperatures in a crowd. The NEXCOM NDiS B360 fits the bill.

The NEXCOM NDiS B360 is a slim and powerful wide temperature (-20 to 60°C) embedded computer with AI processing capabilities ideal for temperature reading applications. The fanless system accepts 12Vdc input and integrates easily with its small 200 x 145 x 39.8 mm (W x D x H) footprint. It sports an energy-conscious 11th Gen Intel® Core™ i3 CPU or an Intel® Core™ i5 UP3 CPU with Intel® IRIS® Xe Graphics technology that boosts graphics performance by 2.95x, going directly to helping AI inference and temperature checks.

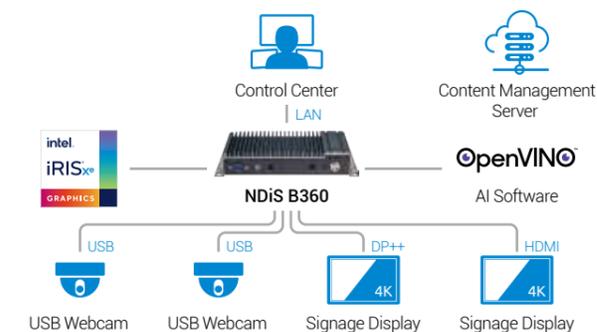
The list of peripherals starts with HDMI 2.0 and DP++ video outputs with 4K @ 60Hz output that display temperature readings, advertising, or other content. Intel® AMT supports remote management. Four USB 3.0 ports provide the high-speed data transfer needed for the high-resolution USB cameras. Networking required for connecting with the control center is achieved through

two Intel® GbE LAN ports, while an optional wireless connection is possible through a Wi-Fi module connected to the M.2 2230 Key E slot. The M.2 2280 Key M slot supporting a PCIe x4 capture card or NVME SSD rounds out the peripherals.

The NEXCOM NDiS B360 is a capable all-rounder that uses OpenVINO optimized AI models for applications such as temperature checking, facial recognition, and access control. At a building entrance, the AI can monitor people coming into the building, detect wearing masks, test their body temperature, and warn if anyone is not wearing a mask or whose temperature is too high. For elevator signage, the screen displays advertising while the system - snugly tucked behind the screen - measures people's temperature for contact tracing.

The NDiS B360 is also capable of facial recognition that can power access control for restricted areas, keep entry records, and outsmart spoofing attempts using photos or images. Auditoriums benefit from touchless identification for self-check-in to visitor identification for automatic attendance reports. Finally, facial recognition can identify VIP customers in retail stores, display customized messages on retail signage, and alert people of interest.

The NDiS B360 is the best choice for facial recognition and access control and has the capability and flexibility to meet the needs of various scenarios in multiple applications.



#### NDiS B360

- 11 Gen Intel® Core™ i3 and i5 Processor SKUs (Tiger Lake)
- Intel® Iris Xe Graphics on i5 SKU
- Intel® AMT supporting remote management
- 2 x Display output: DP++ and HDMI 2.0
- 4 x USB for camera or peripherals
- 2 x Intel® GbE LAN for control center
- M.2 2280 slot supporting capture card and NVME SSD
- M.2 Key E slot supporting Wi-Fi modules





## 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.

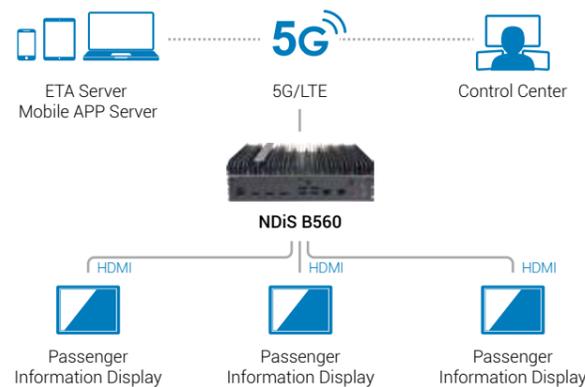
The bus company had three major needs. First, the passenger display system needed to be appealing enough, visually and content-wise, to capture travelers' attention. Secondly, it needed to automate the processes of updating passengers frequently with announcements and news items. Finally, the company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

NEXCOM provided the answer in its NDiS B560 fanless computer,

a 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 enliven 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



## 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.

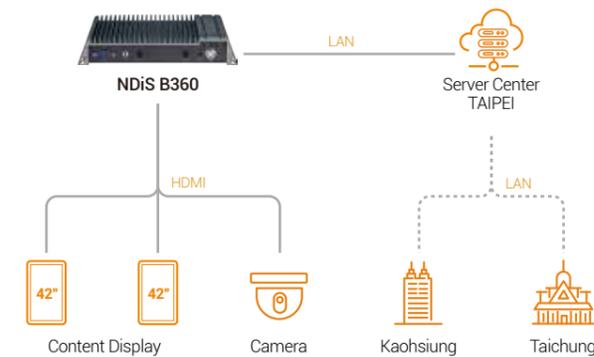
First, the drive-thru system needed to link to display boards that duplicated and presented information that was available in-store, also with eye-catching graphics. The system also needed to support video cameras to view passengers as soon as they drove up to the display boards. Furthermore, the coffee 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: 36mm)
- 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





## Data Monitoring

### Embedded System Provides Power Data Monitoring for Solar Power Systems

The race to reach net-zero is accelerating demand for solar power and power management systems to monitor their performance. In Japan, more than ten years since a tsunami damaged the Fukushima nuclear power plant, prompting a shutdown of many of Japan's reactors, the nation is still facing an energy crisis as green energy has not managed to make up for the energy shortfall. This situation benefits solar power providers as the solar energy surge continues. Demand has even remained relatively untouched by the COVID-19 pandemic, with 5.4 GW of solar projects completed in 2020 and growth of the solar energy market expected to grow at more than 9.2% CAGR during 2022-2027.

#### Balancing solar power loads in air conditioning systems

As solar power continues to grow, a different set of challenges is arising: helping solar energy users maximize power efficiency by balancing and optimizing clean green energy with the steady power that the traditional grid provides. Monitoring these power systems requires tapping into the native RS-485 data from the equipment and transmitting it online to enable real-time monitoring and remote management. Our client, in the green power management industry, provides an air-conditioning power reduction control system for supermarkets, drug stores, nursing homes, and other locations to optimize their air conditioning power consumption through detailed analysis of power consumption data.

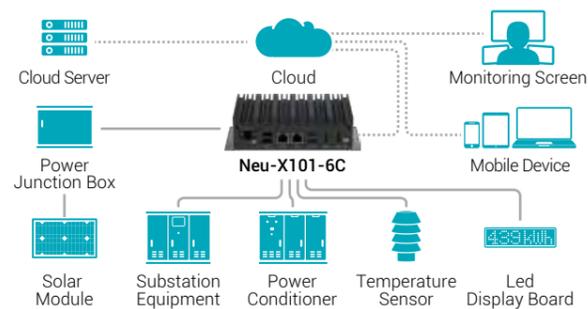
**Challenges in collecting RS-485 data for real-time remote monitoring**  
Connecting to and monitoring air conditioners, solar power, and grid power is more complicated than simply plugging them together. The difficulty lies in collecting data over RS-485, connecting to the internet, and keeping systems online 24/7.

#### Multiple built-in RS-485 ports for streamlined data collection

The Neu-X101-6C is NEXCOM's solution to this problem. At the core, it uses the Neu-X101 with an Intel® Celeron® J3455 (Apollo Lake) processor (2.30GHz, 10W), two HDMI outputs for multi-display, two Gigabit Ethernet ports for fast internet connectivity, four USB ports for various peripherals, and wireless module expansion options. It's also built strong, with a fanless computer design to keep out all dust, 12 Vdc power input, and a supported operating temperature from -5 to 50°C. Customizing the base model with a six-port COM port module, and retaining the other critical components for a redundant data collection setup.

#### All-in-one solution for RS-485 data collection from multiple sources

The Neu-X101 industrial-grade embedded computer provides power management systems with a highly reliable computer system with a small footprint and high performance. With the customized Neu-X101-6C that includes multiple RS-485 ports, our client can now capture energy data and provide real-time remote monitoring to optimize and balance energy usage.



### Neu-X101-6C

- Intel® Celeron® J3455 (Apollo Lake) processor
- Slim chassis design
- Support 2 x HDMI 1.4b output
- Support power input 12 VDC
- Fanless design
- 1 x DDR3L up to 8GB, M.2 2242 Key M for storage device
- mini-PCIe slot support Wi-Fi and LTE module



## Amusement Machine

### NEXCOM's Edge Computing System Brings Engaging Amusement Machine Experience

The amusement machine industry has been thriving for years, providing entertainment and educational options for people of all ages. As technology has advanced, the market has shifted to more immersive arcade machine experiences. Recently, there has been an increased demand for educational machines that offer interactive gameplay to help children learn. This is due to a desire for more effective and engaging learning, as well as a growing awareness of the benefits of early childhood education. As technology continues to advance, and new forms of entertainment and education emerge, the amusement machine market is expected to keep growing. The Neu-X101 from NEXCOM is an edge computer that meets this growing demand.

NEXCOM's Neu-X101 is a versatile device that can connect to various peripherals, including gaming controllers, joysticks, and high-resolution displays. It is powered by an Intel® Celeron® J3455 processor, providing sufficient computing power for immersive gaming experiences. With HDMI connections, manufacturers can link up to 4K displays, giving customers a visually stunning gaming experience. The edge computer also supports audio, USB and COM connections, making it easy to integrate with different controllers and audio systems to provide personalized

gaming experiences. It offers hassle-free maintenance as games and software can be easily installed and updated via USB.

Neu-X101 has various potential applications in the amusement machine market, including arcade machines to keep children entertained in toy stores while their parents shop, as well as in public places including airports and fast-food chains. It's also a great tool for educational purposes, offering games such as language teaching, drawing, and coloring. Additionally, the fanless Neu-X101 can be tailored to meet the specific needs of different customers, making it a dependable choice for amusement machine manufacturers seeking to create diverse gaming experiences for their customers.

With its versatility, advanced technology, and easy maintenance, Neu-X101 edge computer is an ideal choice for amusement machine manufacturers who are looking to create engaging and customized gaming experiences for their customers. As the industry continues to grow, NEXCOM is committed to providing innovative solutions that meet the evolving needs of the amusement machine market.



### Neu-X101

- Intel® Celeron® J3455 (Apollo Lake) processor
- Support 1 x RS232/422/485, 4 x USB, 2 x LAN, Audio-out
- 1 x DDR3L up to 8GB, M.2 2242 Key M for storage device
- mini-PCIe slot support Wi-Fi and LTE module
- Dual HDMI 4K@30Hz independent display
- Support power input 12V
- Palm size for IoT edge computer application





## Data Collection

# XPPC 16-100 Panel PC Powers Food Production Data Collection

### Introduction

Timely and accurate data-driven decision-making hinges on collecting the information that is most important for making informed choices. Production lines are complex systems that typically run continuously to avoid the cost of system downtime. Keeping track of items as they progress through the various processes is a key ingredient in ensuring that the right items get to the right places at the right time.

Our customer, a food processing factory in Poland, wanted an all-in-one panel PC to implement a barcode scanning system along their production line that would trigger when a product arrived, scan the product barcode, then transmit the data to the backend systems.

They used the XPPC 16-100 industrial panel PC with Intel® Celeron® CPU for this application. The XPPC 16-100 is a slim computer designed for harsh industrial production environments with various mounting options for easy integration, efficient and uncompromising design, and I/O ports that meet the needs of typical industrial applications.

### Easy Mounting in Clean, Stainless Steel Enclosure

Keeping facilities clean is a primary concern for food production, with health and safety regulations setting the expectations. For integrators, this means installing the XPPC 16-100 in an easy-to-clean stainless steel enclosure. The versatile mounting options enabled our customer to quickly and easily install the XPPC 16-100

in the stainless steel enclosure, leaving the touchscreen computer front panel exposed to the elements.

### Rugged Design to Operate in Harsh Environments

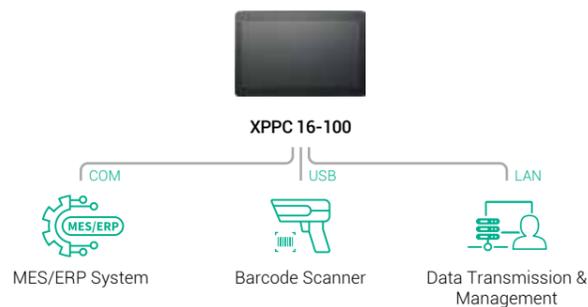
Dust and regular wet cleaning pose a challenge to most computers. The XPPC 16-100 front panel is IP65 compliant, so it has been tested against the ingress of water and dust, protecting it from environmental dust and the water used during regular cleaning. The stainless steel enclosure protects the back, so it is well protected and easy to wipe down.

### Essential I/O Ports for Automation Integration

The MES system on the XPPC 16-100 must trigger when the item arrives, scan the barcode, and send data to the ERP. The XPPC 16-100 has two USB ports and a LAN port to handle this process. One USB connects to the production line to receive a signal when a product comes up for scanning, another USB port connects to the barcode scanner to scan the item, and the LAN port transmits the data to the backend systems.

### The Essential System for Production Line Automation

The NEXCOM XPPC 16-100 provides rugged industrial-strength, front panel IP65 protection, easy mounting, and I/O ports, making it an excellent choice for food production lines and any automated production scenario. NEXCOM's long-term service support backs all this.



## XPPC 16-100

- 15.6" TFT WXGA 16:9 panel
- 10 points P-Cap multi-touch with slim bezel design
- IP65 protection on the front
- Support: VESA/panel/openframe mount
- Intel® Celeron® J3455 processor, Quad Core, 1.50 GHz
- 1 x DDR3L up to 8GB, M.2 2242 Key M for storage device
- Support power input 19 VDC



## Data Control

# Fanless Touchscreen Computer Keeps Food Fresh and Healthy

Commercial businesses, such as supermarkets, are always searching for methods to remain competitive through digital transformation. One area where they often struggle is in managing their large number of refrigerators and freezers. Business owners need to ensure that the temperature is always maintained at the correct level to keep their food fresh, while optimizing energy consumption. To address this challenge, NEXCOM's XPPC 10-100 offers a solution that not only controls and monitors cooling appliances, but also employs the power of AI at the edge and an IoT gateway.

Powered by the Intel® Celeron® processor and DDR3L support of up to 8GB, this fanless touchscreen computer can perform AI tasks locally, without relying on cloud computing. Once implemented onto their cold storage units, this computer promotes digital transformation via detecting temperature fluctuations to maintain the highest standard of food freshness.

The XPPC 10-100 is a slim bezel computer that offers a clear multi-touchscreen LCD panel with 400 nits of brightness. When integrated with cooling appliances, the fanless computer functions as an IoT gateway. Through the HMI

of the control panel, customers can monitor, operate, and control the temperature, humidity level, and lighting settings for their refrigerators and freezers. Additionally, these settings can be adjusted and arranged in advance based on business hours, helping to save labor costs and reduce up to 10% of total power consumption yearly.

Moreover, the XPPC-10-100 acts as an IoT gateway, collecting and transmitting data from temperature, lighting, and sensor controllers to the cloud. With its COM port and RJ45 GbE, the XPPC 10-100 enables seamless connectivity and data transfer between the cooling appliances and the cloud. Businesses can now gain real-insights into their operations, monitor performance, and make informed decisions based on data-driven analytics.

Compliant with IP65, this fanless computer provides customers with a reliable digital transformation solution. The XPPC 10-100 is not only a slim bezel computer that guarantees power efficiency and reduces labor costs, but also a versatile and intelligent solution that combines IoT gateway technologies, enabling businesses to stay competitive in the rapidly evolving digital landscape.



## XPPC 10-100

- 10.1" TFT WXGA 16:10 panel
- 10-point PCAP multi-touch with slim bezel design
- IP65 protection on the front
- Support: VESA/panel/open frame mount
- Intel® Celeron® processor J3455
- 1 x DDR3L up to 8GB, M.2 2242 Key M for storage device
- Support power input 12V DC





## AI Recognition

### NEXCOM's Mini-ITX Board Promotes Traffic Enforcement via AI Recognition

As of today, road traffic accidents are the eighth leading cause of death worldwide. Each year, there are approximately 1.3 million road fatalities with up to 50 million injuries. Thus, it is critical for governments to take measures in improving road safety at all times. One major solution proven to cut traffic accidents by a whopping 50% is through AI recognition. NEXCOM addresses this issue by introducing the 8th Gen Intel® Core™ processor, Intel® UHD Graphics 630, and Intel® Q370 chipset designed Mini-ITX board. When implemented onto smart radars, it facilitates drivers' awareness, road management, and remote management, bringing forth a smart city.

To continuously remind road users of driving behavior, discourage road violations, and ultimately build a smart city, a board with the relevant I/Os and hardware will be extremely invaluable to fulfilling smart road management applications. Therefore, besides a powerful processor, NEXCOM's X300-Q370 Mini-ITX board provides three

HDMI ports, ten USB ports, mic-in/line-out ports for audio warnings, a PCIe x16 slot supporting AI module, one M.2 2230 Key E with Wi-Fi interface, etc.

When combining rich ports with the necessary software, this Mini-ITX board is able to display speed limits and seatbelt reminders on up to 55" 4K@60Hz clear displays and interactive LEDs respectively. Simultaneously, it detects road violations with AI recognition via ANPR cameras, reliably identifying 360° of its surroundings at all times. All violation data will be sent to police headquarters via Wi-Fi and the cloud.

Equipped with Intel® Q370 chipset, this board decreases system downtime and maintenance costs with remote management via Intel® Active Management Technology (iAMT). Through AI recognition technology, this ruggedized, effective, and reliable industrial-grade Mini-ITX board monitors speeding vehicles under all weather conditions, as it relentlessly steers toward a smart city.



X300-Q370



55" 4K Display



ANPR Camera



Speed Radar



Interactive LED

#### X300-Q370

- Support socket LGA1151 for 8th Gen Intel® Core™ i7/i5/i3 processors
- Intel® Q370/H310 chipset
- 2 x 260-pin SO-DIMM DDR4 up to 32GB
- Triple display: HDMI/LVDS
- 2 x GbE with Intel® I219-LM and I211-AT
- 1 x M.2 2230 Key E
- 1 x SATA 3.0 (Q370)
- 3 x COM, 10 x USB, 1 x Audio
- 1 x PCIe x16 (Q370) or 1 x LVDS (H310)



## Edge AI Computer

### NEXCOM AIEdge-X® 500 Edge AI Computing System for Traffic Management in Bangkok

The bustling metropolis of Bangkok, Thailand, stands as a beacon of cultural richness and economic vitality. However, similar to other emerging cities in South East Asia, its growth has led to an unprecedented challenge – traffic congestion. There were traffic lights at about 500 locations in Bangkok. In many areas they were still controlled by timers and did not adjust to actual traffic conditions.

Thailand government launched "Thailand 4.0 project" to integrate AI into current traffic management systems for cities to optimize road conditions and enhance urban transportation planning.

AIEdge-X®500's LAN ports are connected to CCTV traffic cameras installed at intersections to record and perform license plate recognition to catch traffic violators who exceeds speed limit, cross red line and motorists who parked their vehicles in no-parking areas.

On top of it, city administration and office of transport, traffic policy and planning developed a traffic management model and use AI to estimate traffic congestion in each hour,

analyze bottlenecks and come up with solutions in real time. For example, by adjusting traffic lights in line with traffic volume.

NEXCOM AIEdge-X®500 seamlessly integrates into the traffic signal box, showcasing its remarkable performance even in the challenging conditions of high temperatures and humidity that are characteristic of the subtropical climate. The device operates efficiently within a temperature spectrum of 0°C to 45°C and a humidity range of 10% to 90%.

Powered by 8/9th Gen Intel® Core™ processor, the AIEdge-X®500 integrates maximum graphic processing potential with support for large storage and peripheral and internal devices to effectively meet industrial AI requirements, from image processing/optimization to machine/deep learning and machine vision.

This AIEdge-X®500 Edge AI computing solutions are expected to be deployed to 100 other locations in next 2 to 3 years to facilitate traffic management in Bangkok and reduce traffic violations in the city.



AIEdge-X®500



Graphic Card



High Resolution Camera



Remote Management Console

#### AIEdge-X® 500

- LGA1151 socket for 8/9th Gen Intel® Core™ processor (35W/65W/95W\*)
- \* If 95W CPU is desired, please select P/N: 10W20X50001X0
- 4 x 2.5 inch HDD/SSD slot, supports RAID 0/1/5/10
- Expandable PCIe x16/PCIe x4/PCI slots, perfect for graphics cards
- Suitable for all kinds of AI applications
- 1 x Intel® I219-LM GbE PHY and 1 x Intel® I211 Gigabit Ethernet Controller
- Supports Intel® AMT



AIEdge-X® 500



# Box Computer

## Edge Computing System

Model	 Neu-X100	 Neu-X101	 <b>NEW</b> Neu-X101-6C-DC	 <b>NEW</b> Neu-X102-N50
CPU	Intel® Celeron® N3350 Intel® Celeron® J3455 Intel® Pentium® N4200	Intel® Celeron® J3455	Intel® Celeron® J3455	Intel® Processor N50 (Alder Lake)
Chipset	-	-	-	-
Graphics	Intel® HD 500 Graphics	Intel® HD 500 Graphics	Intel® HD 500 Graphics	Intel® UHD Graphics
Memory	1 x DDR3L SO-DIMM 8GB max.	1 x DDR3L SO-DIMM 8GB max.	1 x DDR3L SO-DIMM 8GB max.	1 x DDR4 SO-DIMM 16GB max.
Gigabit LAN	2	2	2	2
WLAN	Optional	Optional	-	Optional
Hard Disk Interface	-	-	-	-
Flash Storage	M.2 2242 Key M (SATA)	M.2 2242 Key M (SATA)	M.2 2242 Key M (SATA)	M.2 2242 Key M (SATA/PCIe)
Display Output	2 x HDMI 2.0	2 x HDMI 1.4	2 x HDMI 1.4b	2 x HDMI 1.4 1 x eDP (internal)
Display Resolution Max.	4096 x 2160 60Hz	3840 x 2160 30Hz	3840 x 2160 30Hz	3840 x 2160 30Hz
Output Channel	2 independent or clone	2 independent or clone	2 independent or clone	2 independent or clone
Video Capability (Hardware Decode)	HEVC (H.265), H.264, MVC, VP8, VP9, MPEG2, VC-1, WMV9, JPEG/MJPEG	HEVC (H.265), H.264, MVC, VP8, VP9, MPEG2, VC-1, WMV9, JPEG/MJPEG	HEVC (H.265), H.264, MVC, VP8, VP9, MPEG2, VC-1, WMV9, JPEG/MJPEG	Accelerate up to 4K60 (8b AVC, 10b HEVC/VP9, SCC, AV1)
Audio Output	1 x Line-out/ Mic-in pin header 1 x Speaker pin header	1 x Line-out/ Mic-in pin header 1 x Speaker pin header	1 x Line-out/ Mic-in pin header 1 x Speaker pin header	1 x Line-out/ Mic-in pin header 1 x Speaker 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; 1 x RS232; 4 x RS485	1 x RS232/422/485 1 x RS232 (internal)
USB 2.0	4 (internal)	2 (edge) 2 (internal)	2 (edge) 2 (internal)	2 (internal)
USB 3.0	2	2	2	4
Expansion Slot	1 x mini-PCIe (SIM socket)	1 x mini-PCIe (SIM socket)	-	1 x mini-PCIe (SIM socket)
Operating Temp.	-5°C~50°C	-5°C~50°C	-5°C~50°C	-5°C~50°C
DC Input	19V DC incl. AC/DC power adapte	12V DC incl. AC/DC power adapter	9~24V DC Input	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	179 x 121 x 44	179.5 x 106 x 37
OS Support	Win10/Linux	Win10/Linux	Win10/Linux	Win10/Win11/Linux
Certification	CE, FCC class A	CE, FCC class A	CE, FCC class A	CE, FCC class A
Need to upgrade to EN55035				

Model	 <b>NEW</b> Neu-X102-N97	 Neu-X300	 Neu-X300-F65	 Neu-X302
CPU	Intel® Processor N97 (Alder Lake)	8th Gen Intel® Core™ (socket, 35W)	8th Gen Intel® Core™ (socket, 65W)	8th Gen Intel® Core™ (socket, 35W)
Chipset	-	Intel® Q370 /H310 PCH	Intel® Q370 PCH	Intel® Q370 /H310 PCH
Graphics	Intel® UHD Graphics	Intel® UHD Graphics 630	Intel® UHD Graphics 630	Intel® UHD Graphics 630
Memory	1 x DDR4 SO-DIMM 16GB 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	2	2
WLAN	Optional	Optional	Optional	Optional
Hard Disk Interface	-	-	-	-
Flash Storage	M.2 2242 Key M (SATA/PCIe)	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	2 x HDMI 1.4 1 x eDP (internal)	3 x HDMI 2.0 (Q370) 2 x HDMI 2.0 (H310)	3 x HDMI 2.0	3 x HDMI 2.0 (Q370) 2 x HDMI 2.0 (H310)
Display Resolution Max.	3840 x 2160 30Hz	4096 x 2160 60Hz	4096 x 2160 60Hz	4096 x 2160 60Hz
Output Channel	2 independent or clone	3 independent or clone	3 independent or clone	3 independent or clone
Video Capability (Hardware Decode)	Accelerate up to 4K60 (8b AVC, 10b HEVC/VP9, SCC, AV1)	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	MPEG-2 (H.262), MPEG-4 (H.264), JPEG/MJPEG, HEVC (H.265), VC-1, VP8, VP9
Audio Output	1 x Line-out/ 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)	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 2 x RS232 (internal)	1 x RS232/422/485 2 x RS232	1 x RS232/422/485 2 x RS232 (internal)
USB 2.0	2 (internal)	4 (H310, internal) 6 (Q370, internal)	6	4 (H310, internal) 6 (Q370, internal)
USB 3.0	4	4	4	4
Expansion Slot	1 x mini-PCIe (SIM socket)	1 x M.2 2230 Key E	1 x M.2 2230 Key E	1 x M.2 2230 Key E
Operating Temp.	-5°C~50°C	-5°C to 45°C	-5°C to 45°C	-5°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)	203.5 x 106 x 40	190 x 200 x 54.4	190 x 220 x 46.8	190 x 200 x 64.3
OS Support	Win10/Win11/Linux	Win10/Linux	Win10/Linux	Win10/Linux
Certification	CE, FCC class A	CE, FCC class A	CE, FCC class A	CE, FCC class A
Need to upgrade to EN55035				

## Box Computer

### Edge Computing System

	<b>NEW</b>	<b>NEW</b>	<b>NEW</b>
Model	 Neu-X303	 Neu-X303mini	 Neu-X304
CPU	12th Gen Intel® Core™ (socket, 15W)	12th Gen Intel® Core™ (socket, 45W)	13/12th Gen Intel® Core™ (socket, 35W)
Chipset	-	-	Intel® Q670E/H610E
Graphics	Intel® Iris® X® Graphics (on i5/7) Intel® UHD Graphics 730 (on i3)	Intel® Iris® X® Graphics (on i5/7) Intel® UHD Graphics 730 (on i3)	Intel® UHD Graphics 770
Memory	2 x DDR5 SO-DIMM 64GB max.	2 x DDR5 SO-DIMM 64GB max.	2 x DDR5 SO-DIMM 64GB max.
Gigabit LAN	2	2	2
WLAN	Optional	Optional	Optional
Hard Disk Interface	-	-	-
Flash Storage	M.2 2280 Key M (PCIe x4)	M.2 2280 Key M (PCIe x4)	M.2 2280 Key M (PCIe x4/SATA)
Display Output	1 x HDMI 2.1 1 x DP 1.4 2 x DP 1.4 thru USB-C	1 x HDMI 2.1 1 x DP 1.4 2 x DP 1.4 thru USB-C	3 x HDMI 2.0 1 x LVDS (internal) Q670E
Display Resolution Max.	7680 x 4320 60Hz	7680 x 4320 60Hz	4096 x 2160 60Hz
Output Channel	4 independent or clone	4 independent or clone	3 independent or clone
Video Capability (Hardware Decode)	8K60 12b 4:2:0 HEVC/VP9/SCC; 8K30 10b 4:2:0 AV1; 5K60 10b 4:4:4 HEVC/VP9/SCC; 4K60 8b 4:2:0 AVC	8K60 12b 4:2:0 HEVC/VP9/SCC; 8K30 10b 4:2:0 AV1; 5K60 10b 4:4:4 HEVC/VP9/SCC; 4K60 8b 4:2:0 AVC	8K60 12b 4:2:0 HEVC/VP9/SCC; 8K30 10b 4:2:0 AV1; 5K60 10b 4:4:4 HEVC/VP9/SCC; 4K60 8b 4:2:0 AVC
Audio Output	-	-	1 x Line-out, 1 x Mic-in
COM Port	1 x RS232 (internal)	1 x RS232 (internal)	1 x RS232/422/485 1 x RS232
USB 2.0	1 (internal)	1 (internal)	4 (Q670E) 5 (H610E)
USB 3.0	6 (2 thru USB type C)	6 (2 thru USB type C)	4 (USB 3.2, Q670E) 3 (USB 3.2, H610E)
Expansion Slot	1 x M.2 2230 Key E	1 x M.2 2230 Key E	1 x M.2 2230 Key E 1 x M.2 3052 Key B
Operating Temp.	0°C to 50°C	0°C to 60°C	-5°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
Dimension W x D x H (mm)	190 x 150 x 59.8	183 x 137.9 x 47.9	210 x 210 x 50
OS Support	Win10/Linux	Win10/Linux	Win10/Win11/Linux
Certification	CE, FCC class A	CE, FCC class A	CE, FCC class A
Need to upgrade to EN55035			

## Box Computer

### Visual Edge Computer

Model	 NDiS B535	 NDiS B537	 NDiS B537-I	 NDiS B560
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)
Chipset	Intel® Q170	Intel® H110	Intel® Q170	Intel® Q370
Graphics	Intel® HD 530 Graphics	Intel® HD 630 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	1	2	2
WLAN	Optional	Optional	Optional	Optional
Hard Disk Interface	1 x 2.5" SATA	1 x 2.5" SATA	1 x 2.5" SATA	1 x 2.5" SATA
Flash Storage	M.2 2242/2280 Key M	-	-	M.2 2280 Key M (SATA/PCIe x4)
Display Output	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	3 x HDMI 2.0
Display Resolution Max.	4096 x 2160	3840 x 2160	3840 x 2160	4096 x 2160
Output Channel	3 independent or clone	2 independent or clone	3 independent or clone	3 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
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
COM Port	4 x RS232 2 x RS232 (internal)	2	2	1 x RS232/422/485 3 x RS232
USB 2.0	2 (internal)	2 (internal)	2 (internal)	-
USB 3.0	6	4	4	6
Expansion Slot	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	1 x M.2 3042/3052 Key B 1 x M.2 2230 Key E
Operating Temp.	0°C to 40°C	-10°C to 45°C	-10°C to 45°C	-20°C to 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
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
OS Support	Win7/Win8.1/WESB/ Win10/ Linux	Win10/Linux	Win10/Linux	Win10/Linux
Certification	CE, FCC class A	CE, FCC class A <b>UL</b>	CE, FCC class A <b>UL</b>	CE, FCC class A
Need to upgrade to EN55035				

# Box Computer

## Visual Edge Computer

Model	 NDiS B560S	 <b>NEW</b> NDiS B561	 <b>NEW</b> NDiS B561-PoE	 <b>NEW</b> NDiS B561S
CPU	9/8th Gen Intel® Core™ (socket, 35W)	12th Gen Intel® Core™ (Socket, 35W)	12th Gen Intel® Core™ (Socket, 35W)	12th Gen Intel® Core™ (Socket, 35W)
Chipset	Intel® H310	Intel® Q670E	Intel® Q670E	Intel® H610E
Graphics	Intel® HD 630 Graphics	Intel® UHD Graphics architecture	Intel® UHD Graphics architecture	Intel® UHD Graphics architecture
Memory	2 x DDR4 SO-DIMM 32GB max.	2 x DDR5 SO-DIMM 64GB max.	2 x DDR5 SO-DIMM 64GB max.	2 x DDR5 SO-DIMM 64GB max.
Gigabit LAN	2	3	3 (LAN 2/ 3 support PoE function)	2
WLAN	Optional	Optional	Optional	Optional
Hard Disk Interface	1 x 2.5" SATA	-	-	-
Flash Storage	M.2 2280 Key M (SATA)	M.2 M2280 Key M (SATA/PCIe x4)	M.2 M2280 Key M (SATA/PCIe x4)	M.2 M2280 Key M (SATA/PCIe x4)
Display Output	2 x HDMI 2.0	1 x HDMI 2.1 2 x HDMI 2.0	1 x HDMI 2.1 2 x HDMI 2.0	2 x HDMI 2.0
Display Resolution Max.	4096 x 2160	HDMI 2.1: 7680 x 4320 60Hz HDMI 2.0: 4092 x 2160 60Hz	HDMI 2.1: 7680 x 4320 60Hz HDMI 2.0: 4092 x 2160 60Hz	4092 x 2160 60Hz
Output Channel	2 independent or clone	3 independent	3 independent	2 independent
Video Capability (Hardware Decode)	MPEG-2 (H.262), MPEG-4(H.264), JPEG/MJPEG, HEVC(H.265), VC-1, VP8, VP9	8K60 12b 4:2:0 HEVC/VP9/SCC 8K30 10b 4:2:0 AV1 5K60 10b 4:4:4 HEVC/VP9/SCC 4K60 8b 4:2:0 AVC	8K60 12b 4:2:0 HEVC/VP9/SCC 8K30 10b 4:2:0 AV1 5K60 10b 4:4:4 HEVC/VP9/SCC 4K60 8b 4:2:0 AVC	8K60 12b 4:2:0 HEVC/VP9/SCC 8K30 10b 4:2:0 AV1 5K60 10b 4:4:4 HEVC/VP9/SCC 4K60 8b 4:2:0 AVC
Audio Output	1 x Line-out, 1 x Mic-in	1 x Line-out 1 x Mic-in 1 x Speaker (internal)	1 x Line-out 1 x Mic-in 1 x Speaker (internal)	1 x Line-out 1 x Mic-in 1 x Speaker (internal)
COM Port	1 x RS232/422/485 3 x RS232	1 x RS232/422/485 3 x RS232	1 x RS232/422/485 3 x RS232	1 x RS232/422/485 3 x RS232
USB 2.0	2	4 (internal)	4 (internal)	4
USB 3.0	4	8	8	2
Expansion Slot	1 x M.2 3042/3052 Key B 1 x M.2 2230 Key E	2 x M.2 2280 Key M 1 x M.2 2230 Key E 1 x M.2 3042/3052 Key B	2 x M.2 2280 Key M 1 x M.2 2230 Key E 1 x M.2 3042/3052 Key B	2 x M.2 2280 Key M 1 x M.2 2230 Key E 1 x M.2 3042/3052 Key B
Operating Temp.	0°C to 40°C	-20°C to 60°C	0°C to 40°C	0°C to 50°C
DC Input	12V DC incl. AC/DC power adapter	12V~24V DC incl. AC/DC power adapter	24V DC incl. AC/DC power adapter	12V DC incl. AC/DC power adapter
Dimension W x D x H (mm)	238 x 192 x 39	238 x 192 x 67.1	238 x 192 x 67.1	238 x 190 x 39
OS Support	Win10/Win11/Linux	Win10/Win11/Linux	Win10/Win11/Linux	Win10/Win11/ Linux
Certification	CE, FCC class A	CE, FCC class A	CE, FCC class A	CE, FCC class A
Need to upgrade to EN55035				

Model	 <b>NEW</b> NDiS B361	 NDiS B360	 NDiS B338	 NDiS B338-LITE	 NDiS B337
CPU	12th Gen Intel® Core™ i3-1215UEA	Intel® Core™ i5-1145G7E, Intel® Core™ i3-1115G4E	Intel® Celeron® J6412	Intel® Celeron® J6412	Intel® Celeron® J3455
Chipset	-	-	-	-	-
Graphics	Intel® UHD Graphics for 12th Gen Intel® Processors	Intel® Iris® Xc Graphics (on i5), 11th Gen Intel® UHD Graphics (on i3)	10th Gen Intel® UHD Graphics	Intel® UHD Graphics for 10th Gen Intel® Processors	Intel® HD 500 Graphics
Memory	2 x DDR4 SO-DIMM 64GB max.	1 x DDR4 SO-DIMM 32GB max.	2 x DDR4 SO-DIMM 32GB max.	2x DDR4 SO-DIMM 32GB max.	1 x DDR3L SO-DIMM 8GB max.
Gigabit LAN	2	2	2	1	2
WLAN	Optional	Optional	Optional	Optional	Optional
Hard Disk Interface	-	-	-	-	-
Flash Storage	M.2 M2280 Key M (SATA/PCIe x4)	M.2 2280 Key M (PCIe x4)	M.2 2280 Key M (PCIe x4)	M.2 2280 Key M (PCIe x4/SATA)	M.2 2242 Key M (SATA)
Display Output	2x HDMI 2.0	1 x DP++ 1 x HDMI 2.0	3 x HDMI 2.0	2 x HDMI 1.4	2 x HDMI 1.4
Display Resolution Max.	2 x HDMI 2.0 4096 x 2304@60Hz	HDMI: 4096 x 2160 DP++: 4096 x 2304	4096 x 2160	4096 x 2160	3840 x 2160 30Hz
Output Channel	2 independent or clone	2 independent or clone	3 independent or clone	2 independent or clone	2 independent or clone
Video Capability (Hardware Decode)	8K60 12b 4:2:0 HEVC/VP9/SCC 8K30 10b 4:2:0 AV1 5K60 10b 4:4:4 HEVC/VP9/SCC 4K60 8b 4:2:0 AVC	AV1, VP9 8/10/12bit, H.265/HEVC 8/10/12 bit, H.264/AVC, MPEG2	H.264/AVC, MPEG-2, VC-1, JPEG/MJPEG VP8, VP9, HEVC 8, 10-bit	H.264/AVC, MPEG-2, VC-1, JPEG/MJPEG VP8, VP9, HEVC 8, 10-bit	HEVC (H.265), H.264, MVC, VP8, VP9, MPEG2, VC-1, WMV9, JPEG/MJPEG
Audio Output	1 x Line-out 1 x Mic-in (internal) 1 x Speaker out (internal)	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 1 x Mic-in 1 x Speaker (internal)	1 x Line-out 1 x Mic-in (internal) 1 x Speaker (internal)
COM Port	2 x RS232/422/485	1 x RS232/422/485 1 x RS232	1 x RS232/422/485 3 x RS232	2 x RS232	1 x RS232/422/485 1 x RS232
USB 2.0	4 (internal)	4 (internal)	5	5	2 (edge) 2 (internal)
USB 3.0	4	4	1	1	2
Expansion Slot	1 x mini-PCIe 1 x M.2 2280 Key M 1 x M.2 2230 Key E	1 x M.2 2230 Key E	1 x mini-PCIe 1 x M.2 3042/3052 Key B	1 x mini-PCIe 1 x M.2 3042/3052 Key B	1 x mini-PCIe
Operating Temp.	0°C to 50°C	-20°C~60°C	-20°C to 60°C	-20°C~60°C	-20°C~60°C
DC Input	12~24V DC incl. AC/DC power adapter	12V DC incl. AC/DC power adapter	12~24V 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)	200 x 150 x 42	200 x 132.6 x 36	200 x 152.6 x 39.8	200 x 152.6 x 39.8	200 x 117.6 x 40
OS Support	Win10/Linux	Win10/Win11/Linux	Win10/Win11/Linux	Win10/Win11/Linux	Win10/Linux
Certification	CE, FCC class A	CE, FCC class A	CE, FCC class A	CE, FCC class A	CE, FCC class A
Need to upgrade to EN55035					

## Box Computer

### Visual Edge Computer

Model				 <b>NEW</b>
	NDiS B115	NDiS B116	NDiS V1000	NDiS V1100
CPU	Rockchip RK3288	Rockchip RK3399	AMD Ryzen V1605B Quad Core	Intel® Core™ i7-1185G7E Intel® Core™ i5-1145G7E Intel® Core™ i3-1115G4E
Chipset	Embedded	Embedded	-	-
Graphics	MaliT-760 (embedded)	Mali-T864 (embedded)	AMD Radeon Vega 8	Intel® Iris® X <sup>e</sup> Graphics (on i5/i7) Intel® UHD Graphics for 11th Gen Intel® Processors (on i3)
Memory	DDR3 2GB onboard	DDR4 2GB onboard	2 x DDR4 SO-DIMM up to 32GB	2 x DDR4 SO-DIMM up to 64GB
Gigabit LAN	1	2	2	2
WLAN	onboard 802.11 b/g/n	Optional	-	-
Hard Disk Interface	-	-	-	-
Flash Storage	eMMC2 16GB onboard	eMMC 8GB onboard	M.2 2242/2280 Key M (SATA)	M.2 2280 Key M (SATA/PCIe x4)
Display Output	1 x HDMI 2.0	1 x HDMI 1.4 1 x HDMI 2.0	4 x HDMI 2.0	4 x HDMI 2.0
Display Resolution Max.	3840 x 2160	3840x2160 4096x2160 (single display)	4096 x 2160	4096 x 2160
Output Channel	1 independent	2 clone	4 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	H.264, H.265/HEVC (8 bit), H.265/HEVC (10 bit), VP8, VP9, VC-1, AVC, JPEG	5K60 10b 4:4:4 HEVC/VP9/SCC 8K60 12b 4:2:0 HEVC/VP9/SCC 8K30 10b 4:2:0 AV11 4K60 8b 4:2:0 AVC
Audio Output	1 x Line-out	1 x Line-out (internal) 1 x Mic-in (internal) Speaker (internal)	1 x MIC-in, 1 x Line-out (audio internal pin header)	1 x MIC-in, 1 x Line-out
COM Port	1 (UART)	1 x RS232/422/485	1 x RS232/422/485 3 x RS232 (internal)	1 x RS232/422/485 1 x RS232
USB 2.0	2	1	2 (Internal)	1
USB 3.0	-	1	4	3
Expansion Slot	-	1 x mini-PCIe	1 x M.2 2230 Key E	1 x M.2 Key M 2280 1 x M.2 Key B 3052 1 x mini-PCIe
Operating Temp.	-10°C to 50°C	-20°C to 60°C	0°C to 40°C	0°C to 45°C
DC Input	5V DC incl. AC/DC power adapter	12V DC incl. AC/DC power adapter	12VDC incl. AC/DC power adapter	12VDC incl. AC/DC power adapter
Dimension W x D x H (mm)	118 x 101 x 23.6	179.5 x 112.5 x 39.5	190 x 200 x 54.4	190 x 165 x 51.1
OS Support	Android 4.4	Android 7.1	Win10/Linux	Win10/Win11/Linux
Certification	CE, FCC class A	CE, FCC class A	CE, FCC class A	CE, FCC class A
Need to upgrade to EN55035				

## Touchscreen Computer

### Embedded Touchscreen Computer (Intel® Celeron®)

Model				
	XPPC 10-100	XPPC 16-101	XPPC 22-100A	XPPC 24-100A
CPU	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	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
Touch Light Transmission	90%	90%	85%	85%
Luminance (cd/m2)	Panel : 400 XPPC touch : 90% of panel's luminance after optical bonding	Panel : 450 XPPC touch : 90% of panel's luminance after optical bonding	Panel : 400 XPPC touch : 85% of panel's luminance after air bonding	Panel : 350 XPPC touch : 85% of panel's luminance after air bonding
Contrast Ratio	800	1000	1000	1000
LCD Color	16.7M	16.7M	16.7M	16.7M
Viewing Angle	89(U), 89(D), 89(L), 89(R)			
Backlight	LED	LED	LED	LED
Memory	1 x DDR3L SO-DIMM 8GB max.			
Storage	M.2 2242 Key M			
2nd Display	HDMI 2.0	HDMI 1.4b	HDMI 2.0	HDMI 2.0
Gigabit LAN	2	2	2	2
USB 3.0	2	2 x USB 3.0, 2 x USB 2.0	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			
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	12V DC	12V DC	12V DC	12V DC
Power Adapter	60W 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			
Cut-out Size (W x H) (mm)	246.5 x 164.5 (horizontal)	370.5 x 240 (horizontal)	508.4 x 303.4 (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)	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	2 kg	3 kg	5 kg	6 kg
Certification	CE, FCC class A			
Need to upgrade to EN55035				

## Touchscreen Computer

### Embedded Touchscreen Computer (Intel® Core™ i)

Model	 <b>NEW</b>	 <b>NEW</b>	 <b>NEW</b>	 <b>NEW</b>
	XPPC 10-200	XPPC 16-200	XPPC 22-200A	XPPC 24-200A
CPU	Intel® Core™ i5-1145G7E Intel® Core™ i3-1115G4E	Intel® Core™ i5-1145G7E Intel® Core™ i3-1115G4E	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	21.5", 16:9	23.8", 16:9
Max Resolution	WXGA, 1280 x 800	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
Touch Light Transmission	90%	90%	85%	85%
Luminance (cd/m2)	Panel : 400 XPPC touch : 90% of panel's luminance after optical bonding	Panel : 450 XPPC touch : 90% of panel's luminance after optical bonding	Panel : 400 XPPC touch : 85% of panel's luminance after air bonding	Panel : 350 XPPC touch : 85% of panel's luminance after air bonding
Contrast Ratio	800	1000	1000	1000
LCD Color	16.7M	16.7M	16.7M	16.7M
Viewing Angle	89(U), 89(D), 89(L), 89(R)	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
Memory	1 x DDR4 SO-DIMM 32GB max.	1 x DDR4 SO-DIMM 32GB max.	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	M.2 2280 Key M PCIe	M.2 2280 Key M PCIe
2nd Display	HDMI 2.0	HDMI 2.0, DP++	HDMI2.0, DP++	HDMI2.0, DP++
Gigabit LAN	2	2	2	2
USB 3.0	4	4	4	4
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 M.2 2230 Key E	1 x M.2 2230 Key E	1 x M.2 2230 Key E	1 x M.2 2230 Key E
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	12V DC	12V DC	12V DC	12V DC
Power Adapter	60W AC/DC power adapter with lock type	96W AC/DC power adapter with lock type	96W 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	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
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 325.7 (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)	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	2 kg	3 kg	5 kg	5.8 kg
Certification	CE, FCC class A	CE, FCC class A	CE, FCC class A	CE, FCC class A
Need to upgrade to EN55035				

## Embedded Computing Board

### Embedded Computing board

Model			 <b>NEW</b>	 <b>NEW</b>
	X100	X101	X102	X103
Type	3.5"	3.5"	3.5"	3.5"
CPU	Intel® Celeron® N3350 Intel® Celeron® J3455	Intel® Celeron® J3455	Intel® Alder Lake-N Series (SoC)	Intel® Elkhart Lake Series (SoC)
Chipset	-	-	N50/N97/N200	x6211E/x6413E
Graphics	Intel® HD 500 Graphics	Intel® HD 500 Graphics	Intel® UHD Graphics	Intel® UHD Graphics
Memory	1 x DDR3L SO-DIMM 8GB max.	1 x DDR3L SO-DIMM 8GB max.	1 x DDR4 SO-DIMM 16GB max.	1 x DDR4 SO-DIMM 32GB max.
Gigabit LAN	2	2	2	3
WLAN	Optional	Optional	Optional	Optional
Hard Disk Interface	-	-	1x 2.5" SATA	-
Flash Storage	M.2 2242 Key M (SATA)	M.2 2242 Key M (SATA)	M.2 2242 Key M (SATA/PCIe)	M.2 2242 Key M (SATA/PCIe)
Display Output	1 x HDMI2.0 + LVDS or 2x HDMI + LVDS	2 x HDMI 1.4 1 x eDP (optional: LVDS)	2 x HDMI 1.4 1 x eDP (optional LVDS)	1 x HDMI 1.4 1 x LVDS (internal)
Display Resolution Max.	4096 x 2160 60Hz	3840 x 2160 30Hz	3840 x 2160 30Hz	3840 x 2160 30Hz
Video Capability (Hardware Decode)	HEVC (H.265), H.264, MVC, VP8, VP9, MPEG2, VC-1, WMV9, JPEG/MJPEG	HEVC (H.265), H.264, MVC, VP8, VP9, MPEG2, VC-1, WMV9, JPEG/MJPEG	Accelerate up to 4K60 (8b AVC, 10b HEVC/VP9, SCC, AV1)	H.264/AVC, MPEG-2, VC-1, JPEG/MJPEG VP8, VP9, HEVC 8, 10-bit
Audio Output	1 x Line-out pin header	1 x Line-out/Mic-in pin header, 1 x Speaker pin header	1 x Line-out/Mic-in pin header, 1 x Speaker pin header	1 x Line-out 1 x Mic-in pin 1 x Speaker pin header
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 1 x RS232 (internal)	2 x RS232/422/485 4 x RS232 (internal)
USB 2.0	4 (internal pin header)	2 (edge) 2 (pin header)	2 (internal)	4 (internal)
USB 3.0	2	2	4	4
Expansion Slot	1 x mini-PCIe (SIM socket)	1 x mini-PCIe (SIM socket)	1 x mini-PCIe (SIM Socket)	1 x mini-PCIe 1 x M.2 2230 Key E 1 x M.2 3052 Key B (SIM socket)
Operating Temp.	0°C to 60°C	0°C to 60°C	0°C~60°C	-35°C to 80°C
DC Input	12V/19V DC	12C/19V DC	12V DC	12~24V DC
Dimension W x D x H (mm)	146 x 102	146 x 102	146 x 102	146 x 102
OS Support	Win10/Linux	Win10/Linux	Win10/Win11/Linux	Win10/Win11/Linux
Certification	CE, FCC class A	CE, FCC class A	CE, FCC class A	CE, FCC class A
Need to upgrade to EN55035				

# Embedded Computing Board

Embedded Computing board				
Model	 X200	 X303 <b>NEW</b>	 X300	 X302
Type	3.5"	3.5"	miniITX	miniITX
CPU	11th Gen Intel® Core™ (SoC, 15W)	12th Gen Intel® Core™ (Socket, 45/15W)	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 630 Graphics on i3 Intel® Iris® X® Graphics on i5	Intel® HD 630 Graphics on i3, Intel® Iris® X® Graphics on i5/i7	Intel® UHD Graphics 630	Intel® UHD Graphics 630
Memory	1 x DDR4 SO-DIMM	2 x DDR5 SO-DIMM 64GB max.	2 x DDR4 SO-DIMM 32GB max.	2 x DDR4 SO-DIMM 32GB max.
Gigabit LAN	2	3	2	2
WLAN	Optional	Optional	Optional	Optional
Hard Disk Interface	-	-	1 x 2.5" SATA (Q370)	2 x 2.5" SATA
Flash Storage	M.2 2280 Key M (PCIe x4)	M.2 2280 Key M (PCIe x4)	M.2 2280 Key M (Q370: SATA/PCIe x4) (H310: SATA only)	M.2 2242 Key M (Q370: PCIe x1/SATA) (H310: SATA)
Display Output	1 x DP++ 1 x HDMI 2.0 1 x eDP	1 x HDMI 2.1 1 x DP 1.4 2 x DP 1.4 thru USB-C	3 x HDMI 2.0 (Q370) 2 x HDMI 2.0 + 1 x LVDS (H310)	1 x VGA 1 x HDMI 1.4 1 x LVDS (internal)
Display Resolution Max.	4096 x 2304 60Hz	7680 x 4320 60Hz	4096 x 2160 60Hz	4096 x 2160 30Hz
Video Capability (Hardware Decode)	AV1, VP9 8/10/12bit, H.265/HEVC 8/10/12 bit, H.264/AVC, MPEG2	8K60 12b 4:2:0 HEVC/VP9/SCC; 8K30 10b 4:2:0 AV1; 5K60 10b 4:4:4 HEVC/VP9/SCC; 4K60 8b 4:2:0 AVC	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
Audio Output	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
COM Port	1 x RS232/422/485 (pin header) 1 x RS232 (pin header)	1 x RS232 (pin header)	1 x RS232/422/485 (pin header) 2 x RS232 (pin header)	3 x RS232/422/485 (pin header) 3 x RS232 (pin header)
USB 2.0	4 (pin header)	1 (pin header)	6 (pin header, Q370) 4 (pin header, H310)	6 (pin header, Q370) 3 (pin header, H310)
USB 3.0	4	4	4	4
Expansion Slot	1 x M.2 2230 Key E	1 x M.2 Key E 2230 1 x M.2 Key M 2280	1 x M.2 2230 Key E 1 x PCIe x16	1 x M.2 2230 Key E 1 x PCIe x16 1 x SIM card holder for M.2 Key B use
Operating Temp.	-20°C to 60°C	0°C to 60°C	0°C to 60°C	0°C to 60°C
DC Input	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
OS Support	Win10/Win11/Linux	Win10/Linux	Win10/Linux	Win10/Linux
Certification	CE, FCC class A	CE, FCC class A	CE, FCC class A	CE, FCC class A
Need to upgrade to EN55035				

 X304	 V1000	 V1100 <b>NEW</b>
miniITX	miniITX	Epic
13/12th Gen Intel® Core™ (socket, 35W)	AMD Ryzen V1605B Quad Core	Intel® Core i5-1145G7E Intel® Core i3-1115G4E
Intel® Q670E/H610E	-	-
Intel® UHD Graphics 770	AMD Radeon Vega 8	Intel® Iris® X®
2 x DDR5 SO-DIMM 64GB max.	2 x DDR4 SO-DIMM up to 32GB	2 x DDR4 SO-DIMM up to 64GB
2	2	2
Optional	Optional	Optional
1 x 2.5" SATA	-	-
M.2 2280 Key M (PCIe x4/SATA)	M.2 2242/2280 Key M (SATA)	M.2 2280 Key M (SATA/PCIe x4)
3 x HDMI 2.0 1x LVDS (optional eDP)	4 x HDMI 2.0	4 x HDMI 2.0
4096 x 2160 60Hz	4096 x 2160 60Hz	4096 x 2160 60Hz
8K60 12b 4:2:0 HEVC/VP9/SCC; 8K30 10b 4:2:0 AV1; 5K60 10b 4:4:4 HEVC/VP9/SCC; 4K60 8b 4:2:0 AVC	H.264, H.265/HEVC (8 bit), H.265/HEVC (10 bit), VP8, VP9, VC-1, AVC, JPEG	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 MIC-in, 1 x Line-out (audio internal pin header)	1 x MIC-in, 1 x Line-out
1 x RS232/422/485 (pin header) 1 x RS232 (pin header)	1 x RS232/422/485 3 x RS232 (pin header)	1 x RS232/422/485 1 x RS232
4 (Q670E) 5 (H610E)	2 (pin header)	4 (internal) 1 (edge)
4 (Q670E) 3 (H610E)	4	3
1 x M.2 2230 Key E 1 x M.2 3052 Key B	1 x M.2 2230 Key E 1 x PCIe x8	1 x mini-PCIe 1 x M.2 3052 Key B
0°C~60°C	0°C to 60°C	0°C to 60°C
12V DC	12VDC	12VDC
170 x 170	170 x 170	165x123
Win10/Win11/Linux	Win10/Linux	Win10/Linux
CE, FCC class A	CE, FCC class A	CE, FCC class A

## Edge AI Computer

Edge AI Computer			
Model			
	AIEdge-X®300	AIEdge-X®300-RTX30	AIEdge-X®500
CPU	9/8th Gen Intel® Core™ (Socket, 65W max.)	9/8th Gen Intel® Core™ (Socket, 65W max.)	9/8th 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	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	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)"	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	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 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
Certification	CE, FCC class A	CE, FCC class A	CE, FCC class A
Need to upgrade to EN55035	Y	Y	

## 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.



<b>IAS</b>	<b>IoT Automation Solutions:</b> Industrial Automation & I4.0 Execution, Intelligent Edge, Gateway & EWR, Industrial Robot Control, EtherCAT Motion Solutions, Wireless & Embedded Solutions for Industrial IoT
<b>IDS</b>	<b>Intelligent Video Surveillance:</b> IP Video Surveillance Cameras, Mobile Cameras, ANPR/LPR Network Cameras, Panoramic Cameras, NVR Server Platform
<b>IPS</b>	<b>Intelligent Platform @ Smart City:</b> Smart City, Smart Retail, Digital Signage, Interactive Kiosks, Hospitality, Gateway, Edge AI, and ODM Customization Services
<b>MCS</b>	<b>Mobile Computing Solutions:</b> Edge AI Telematics Computer, Vehicle Telematics Computer, Railway Computer, Vehicle Mount Computer, Vehicle Mount Display, In-Vehicle Networking, In-Vehicle HDMI Extender over IP, Fitness Console
<b>MHI</b>	<b>Medical and Healthcare Informatics:</b> Total Solutions with a Variety of Medical IT Systems
<b>NCS</b>	<b>Network and Communication Solutions:</b> 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.

## Headquarters

### NEXCOM International Co., Ltd.

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

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## Asia

### Taiwan

#### NexAIoT Co., Ltd.

##### Taipei Office

13F, No.922, Zhongzheng Rd.,  
Zhonghe District,  
New Taipei City, 23585, Taiwan, R.O.C.  
Tel: +886-2-2886-7796  
Fax: +886-2-8226-7926  
Email: jacobhuang@nexaiot.com  
www.nexaiot.com

#### NexAIoT Co., Ltd.

##### Taichung Office

16F, No.250, Sec. 2, Chongde Rd.,  
Beitun Dist.,  
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, Zhongzheng Rd.,  
Zhonghe District,  
New Taipei City, 23586, Taiwan, R.O.C.  
Tel: +886-2-2886-7786  
Fax: +886-2-2886-7726  
Email: jennyshearn@nexcobot.com  
www.nexcobot.com

#### GreenBase Technology Corp.

13F, No.922, Zhongzheng Rd.,  
Zhonghe District,  
New Taipei City, 23586, Taiwan, R.O.C.  
Tel: +886-2-2886-7786  
Fax: +886-2-2886-7900  
Email: vivianlin@nexcom.com.tw  
www.nexcom.com.tw

#### DivioTec Inc.

19F-1, No.97, Sec. 4, ChongXin Rd.,  
SanChong Dist.,  
New Taipei City, 24161 Taiwan, R.O.C.  
Tel: +886-2-8976-3077  
Email: sales@diviotec.com  
www.diviotec.com

#### AIOT CLOUD CORP.

13F, No.922, Zhongzheng Rd.,  
Zhonghe District,  
New Taipei City, 23586, Taiwan, R.O.C.  
Tel: +886-2-2886-7786  
Fax: +886-2-2886-7982  
Email: support@aiotcloud.dev  
www.aiotcloud.dev

#### EMBUX Technology Co., Ltd.

13F, No.916, Zhongzheng Rd.,  
Zhonghe District,  
New Taipei City, 23586, Taiwan, R.O.C.  
Tel: +886-2-2886-7786  
Fax: +886-2-2886-7982  
Email: info@embux.com  
www.embux.com

#### TMR Technologies Co., Ltd.

13F, No.916, Zhongzheng Rd.,  
Zhonghe District,  
New Taipei City, 23586, Taiwan, R.O.C.  
Tel: +886-2-2886-7786  
Fax: +886-2-2886-7782  
Email: services@tmrtek.com  
www.tmrtek.com

## China

### NEXCOM Shanghai

Room 406-407, Building C, No 154, Lane 953,  
Jianchuan Road, Minhang District,  
Shanghai, 201108, China  
Tel: +86-21-5278-5868  
Fax: +86-21-3251-6358  
Email: sales@nexcom.cn  
www.nexcom.cn

### NEXCOM Surveillance Technology Corp.

Floor 8, Building B3, Xiufeng 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

### Beijing NexGemo Technology Co.,Ltd.

Floor 2, Gemotech Building,  
No.1, Development Rd.,  
Changping International  
Information Industry Base,  
Changping District,  
Beijing, 102206, China  
Tel: +86-10-8072-2025  
Fax: +86-10-8072-2022  
Email: sales@nexgemo.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

46665 Fremont Blvd  
Fremont CA 94538, USA  
Tel: +1-510-656-2248  
Fax: +1-510-656-2158  
Email: sales@nexcom.com  
www.nexcom.com



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