



*Your Partner in Smart Manufacturing*



nexaiot

## 2023 Product Solution Guide IoT Automation & IPC Series

- L1: Industrial PC & Panel PC
- L1: Factory & Motion Automation Product
- L2: M2M, IoT Connectivity Gateway
- L3: Edge Computing
- L3: Cloud-native PaaS and SaaS Solution
- L4: AI Server, AIGE Series

**Ihr Distributor:**

**PLUG-IN**  
ELECTRONIC GMBH

intel  
partner  
Titanium

# About NexAloT

## NexAloT, an Industry 4.0 company Empowering industrial IoT with artificial intelligence

NexAloT is a Limited Liability Company, incorporated in Taiwan in 2014 and is subsidiary of NEXCOM (TWSE: 8234).

NexAloT has established its position worldwide as market leader in providing I4.0 solution including Industrial PC, Factory Automation, Robotics and AIoT solution. Its mission is to become the global leader in industrial IoT and the preferred partner to accelerate the digital transformation in industry 4.0.

NexAloT's operation is supported by solution engineering, product engineering (R&D, project management, technical support), sales & business development (local, overseas and ODM) and backend operation (finance, HR, IT, procurement) divisions, with regional business operation in Asia, Europe and USA.

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# NexAIoT

## Market Value Proposition

NexAIoT aims to be the leader in Industry 4.0 by embracing Open Platform belief. We provide a comprehensive integrated solution from on-premise to the cloud which helps enterprises to achieve the goals of Digital Transformation.

The eSAF cybersecurity software protects everything from the AMR (Autonomous Mobile Robot) to the control units in the production line. It not only defends enterprises against hacker attacks but also secures the data operation from manufacture side.

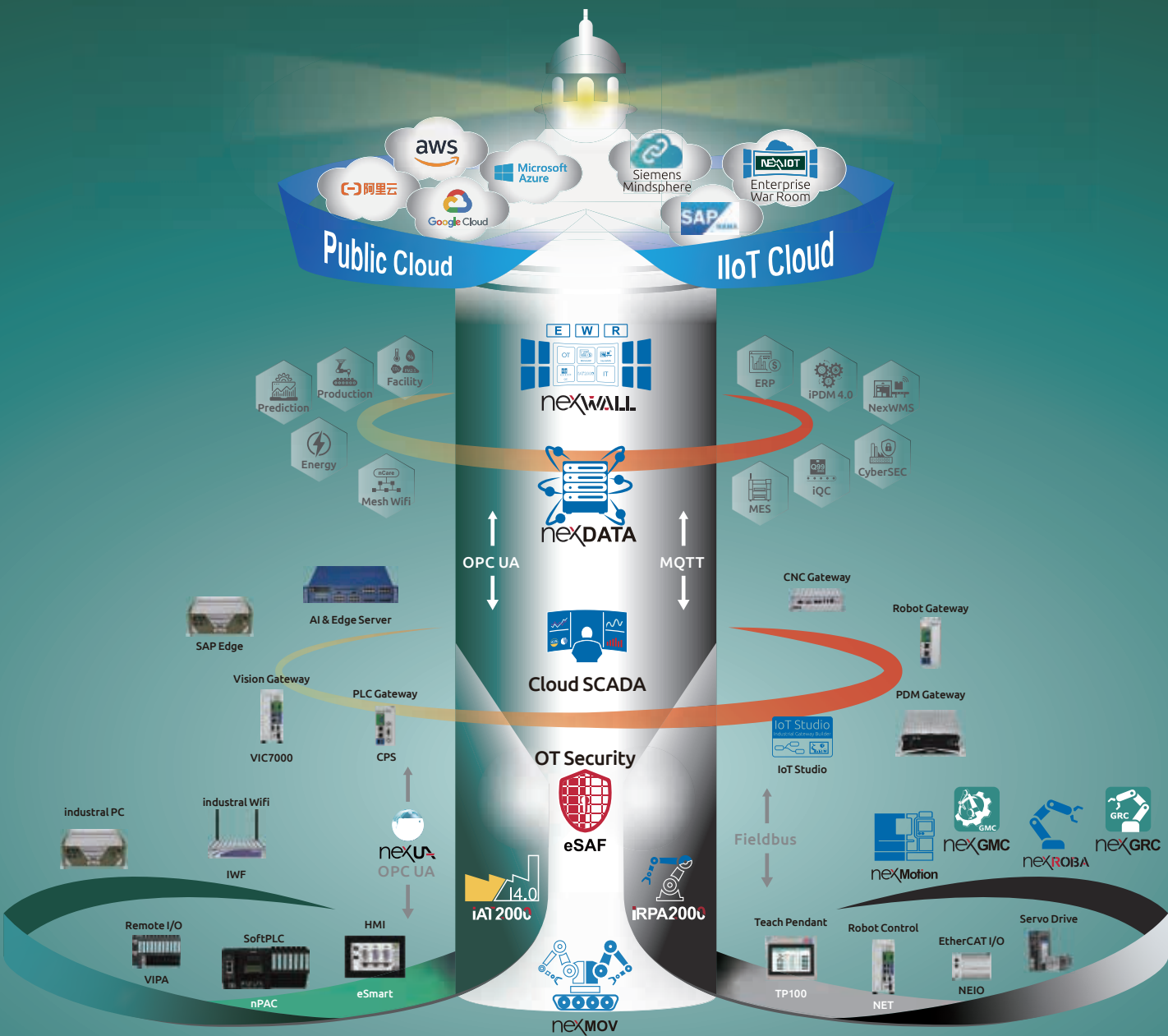
The first step in digital transformation is to build IoT automation in manufacturing, including smart manufacturing and machinery.

NexAIoT's iRPA 2000 system provides motion control solutions for robots and machines, allowing enterprises to rapidly build unmanned production lines through human-robot collaboration. The iAT2000 cloud-based automation system provides smart control units, such as the nPAC controller and I/O, eSMART human-machine interface, fanless industrial computer NISE series, and industrial wireless communicator. Our system is able to help customers build a complete smart factory production line.

In the 2nd phase of integration, NexAIoT provides a complete machine-to-machine solution that integrates world famous brands in PLC , CNC and robot control units. IoT Studio and OPC UA software provides one-click-to-cloud feature which fully complies with Open Standard design concept and enables simplifying the data collection.

NexAIoT's full range of automation products support Intel core series processors and come with software-define-machine and then extend to software-define-manufacturing. They are perfect in smart factories, smart warehousing, and smart agriculture applications.

The 3rd phase of integration aims at the seamless connection of cloud SCADA and ERP, MES, and other IT software. NexDATA is NexAIoT's



self-developed software. It is an on-premises data center that enables to integration of real-time databases, structured data and unstructured databases which can break the traditional Information Silo architecture, making cloud application developers SaaS. to create AI and microservices efficiently.

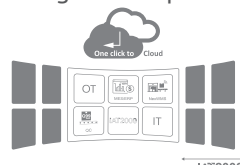
Lastly, NexDATA delivers an open API that enables developers to build enterprise war rooms and its decision-making applications on well-known public cloud or private cloud. NexDATA can empower digital service in sales and marketing activities by operating national boundaryless and real-time decision.



# iAT2000 Makes the Cyber and Physical Integration for Industry 4.0 applications

## Industry 4.0 Project Services

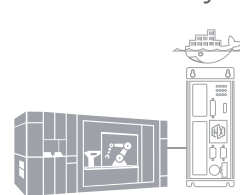
### Digital Enterprise



### Smart Manufacturing



### IoT Connectivity



### Smart Machinery



## iAT2000 Cloud SCADA

### L4 Eco-Partner

Digital Transformation SaaS, PaaS, IaaS

### L3 Eco-Partner

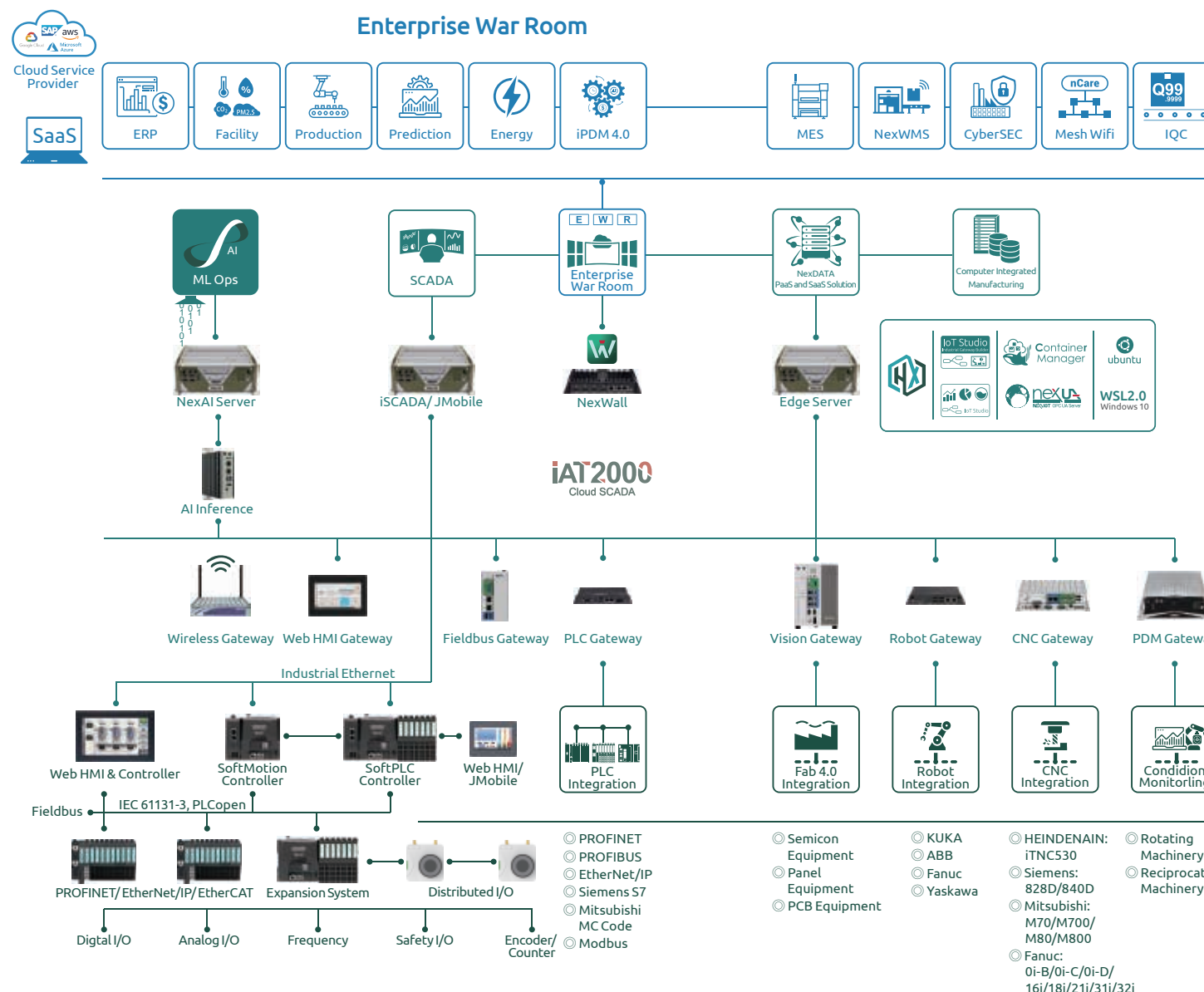
OT/IT Data Lake & Analytics

### L2 Eco-Partner

M2M, CIM, System Integrator

### L1 Eco-Partner

Automation & Machinery System House



## SYSTEM ARCHITECTURE

### Cloud Service

- ① I4.0 War Room
- ② Cloud SCADA
- ③ Big Data Analysis and AI

Level 4 offers the connected IOC and Industrial and business applications as SaaS from digital factory to business operation for real-time and profit-ticking business operation.

### Edge Computing

- ④ Enterprise Information integration
- ⑤ Operation Monitoring and Management
- ⑥ Data Lake Storage
- ⑦ Manufacturing Insight

Level 3 offers the container-based, data storage and visualization edge computing platforms to connect the physical signals from OT systems and information data from IT systems for data storage, ETL, IoT data forwarding and ML inference applications in the management of manufacturing of the digital factory.

### Integrated System

- ⑧ AI Inference
- ⑨ Wireless Gateway
- ⑩ HMI Gateway
- ⑪ PLC Gateway
- ⑫ Fieldbus Gateway
- ⑬ Vision Gateway
- ⑭ Robot Gateway
- ⑮ CNC Gateway
- ⑯ PDM Gateway

Level 2 offers comprehensive device connectivity solutions from field integration to IoT application. The scenario covers automation system and integration for factory, machine, CNC, robot and project applications in various vertical markets.

### Automation System

- ⑰ PC-Based Controllers
- ⑱ Distributed I/O
- ⑲ Function I/O
- ⑳ SCADA and HMI

Level 1 offers a PC-based automation solutions, including IPC, panel PC, PC-based PLC, HTML5 HMI and Distributed I/O to upgrade and integrate the existing industrial control system to new smart manufacturing applications for direct connection to MES, WMS, APM and IT systems in real-time.

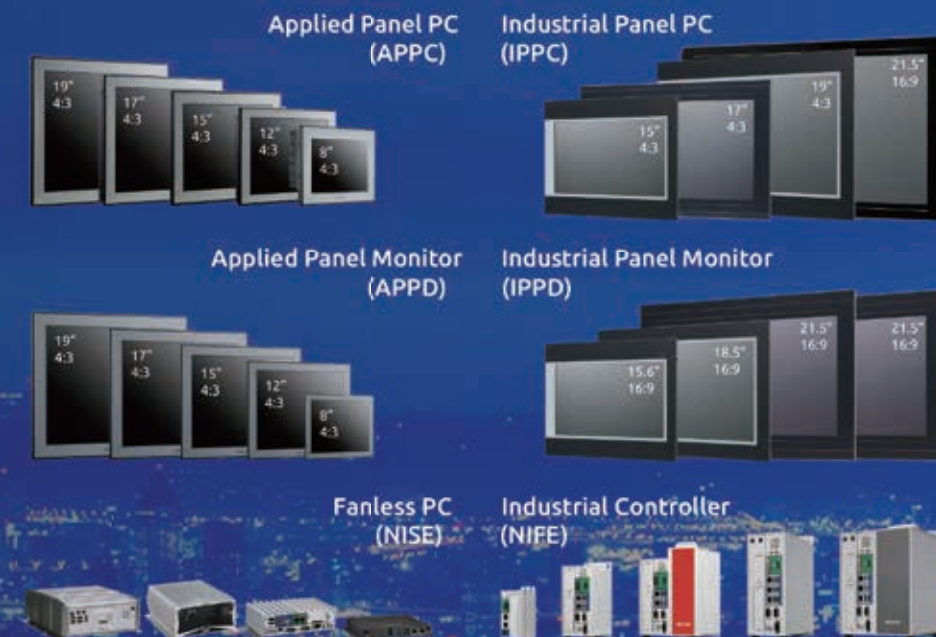


# Industry 4.0 Driving Engine

## IPC & Panel PC

With NexAloT's years of experience in the field of industrial computers, and the commitment of our incredibly talented R&D and top-quality customer service teams, we promise to deliver products that are highlighted by efficiency, sturdiness, durability, and reliability.

NexAloT's IPC line covers fanless computers (NISE), industrial controller (NIFE), smart function PC (TT) and touch screen panel computer (IPPC/ APPC/Transportation PPC/Marine PPC). All are equipped with Intel's latest CPU technology to meet the needs of smart manufacturing.



## PC-Based Automation

NexAloT produces automation controllers, gateways, and servers to enable machine control, data monitoring, and communication for smart manufacturing. The PC-based automation has many benefits: pre-install programs, Ethernet, high computing power, and integration of different brands. In addition to NexAloT own brand products, NexAloT has established a partnership with I4.0 ecosystem partners and has been appointed as an official distributor, such as CODESYS, JMobile, NexAloT produces automation controllers, gateways, and servers to enable machine control, data monitoring, and communication for smart manufacturing.

The PC-based automation has many benefits: pre-installed programs, Ethernet, high computing power, and integration of different brands. In addition to NexAloT own brand products, NexAloT has established a partnership with I4.0 ecosystem partners and has been appointed as an official distributor, such as CODESYS, JMobile, which makes the products as a completed automation solution.





# 2023 New Product



**NISE70-T02**



**TT300-A2Q**



**APPC1560-A11**



**IPPC2411-C11**



**CPS 50-N01**



**nPAC**



**nDAS**





# L1

## Industrial PC & Panel PC

With NexAlot's years of experience in the field of industrial computers, and the commitment of our incredibly talented R&D and top-quality customer service teams, we promise to deliver products that are highlighted by efficiency, sturdiness, durability, and reliability. NexAlot's IPC line covers fanless computers (NISE/NIFE), smart function PC (TT) and touch screen panel computers (IPPC/APPC/Transportation PPC/Marine PPC).

All are equipped with Intel's latest CPU technology to meet the needs of manufacturing, industrial, marine, public transportation, and even retail/service environments, while using 5G and AI technologies to boost production.

NexAlot has additionally launched a new website, a one-stop shop which not only allows you to browse our product catalogue and features more quickly, but also to immediately select the products most suitable for your needs.



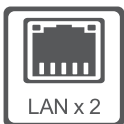




## Slim and Budget Fanless PC

Powered by Intel® Atom® processors, Slim and Budget Fanless Computers feature a complete I/O array. Models serve as ideal centerpieces in space-critical, entry-level applications such as data acquisition, gate control, self-service systems, and points of sale.

New



### ◀ NISE50-B01

#### Slim and cost-effective fanless PC

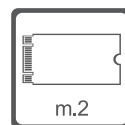
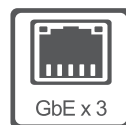
- On-board Intel® Celeron® J1900, 2.00G Hz
- 1 x HDMI, 4 x USB 2.0, 2 x LAN, 3 x COM
- 3 x mini-PCIe sockets for mSATA / Wi-Fi / LTE module
- 1 x RS232 full, 1 x RS232 (only Tx / Rx / GND)
- 1 x RS422 / 485 with auto flow
- Support 24V DC input

### NISE53 ▶

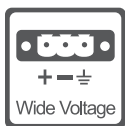
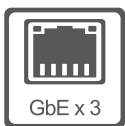
#### Slim fanless PC with multiple I/O design

- On-board Intel® Celeron® J6413 / Atom® x6211E
- 3 x HDMI
- 1 x Front accessible M.2 Key B
- 3 x GbE LAN ports
- 1 x internal M.2 Key B
- 1 x RS232 / 485, 1 x RS232 / 485 with auto flow

New



New



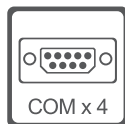
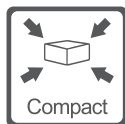
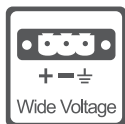
### ◀ NISE70-T02 / T03

#### Compact PC, on-board Tiger Lake-UP3 with 4 x HDMI Display

- On-board Intel® Celeron® 6305E / Core™ i5-1145G7E / Core™ i7-1185G7E
- 3 x USB 3.0, 1 x USB 2.0, 3 x LAN, 2 x COM
- Support TPM2.0 Chip (BOM option)
- 1 x M.2 Socket for storage / 4G LTE / 5G
- 1 x mini-PCIe socket support mSATA / Wi-Fi / BT / 4G LTE
- Support 12 to 24V DC input

## Compact and Expansion Fanless PC

Powered by Intel® Atom® processors, Atom® Compact and Power Series fanless computers, its housed in rugged aluminum chassis with industrial-grade components that deliver exception quality and a ruggedized design.



### ◀ NISE105U

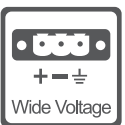
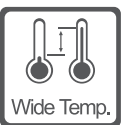
#### Compact fanless PC, price killer

- On-board Intel® Celeron® J1900, 2.00G Hz, 1 x DDR3L SO-DIMM, support 8GB max.
- Support both 2.5" HDD and M.2 storage
- 2 displays, support DVI-I and HDMI
- 2 x USB 2.0, 1 x USB 3.0, 2 x LAN, 4 x COM
- Support 1 x mini-PCIe for Wi-Fi / LTE
- Support 9 to 30V DC input

### NISE107 ▶

#### Compact fanless PC, industrial grade (wide-temp. and wide power input)

- On-board Intel® Atom® x5-E3930, 1.30 G Hz, 1 x DDR3L SO-DIMM, support 8GB Max.
- Support 1 x 2.5" SSD
- 2 displays, support DVI-D and DP
- 4 x USB 3.0, 2 x LAN, 4 x COM
- Support 1 x mini-PCIe for Wi-Fi / 3.5G / LTE
- Support -20°C to 70 °C extended temperature
- Support 9 to 30V DC input







## Hi-performance NISE Fanless PC

Every Core™-i Performance product offers a superb complement to industrial automation, smart machinery, and transportation.

*New*



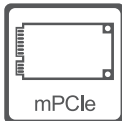
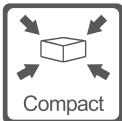
### ◀ NISE3600C

**Original NISE3600 success model  
Intel® Core™ i socket-type fanless PC,  
support Microsoft Windows 7/10**

- Support Intel® 6/7/8/9<sup>th</sup> Gen. Core™ i socket-type CPU
- 2 x DDR4 2400 SO-DIMM socket, support 32GB max.
- Support both internal 2.5" HDD and M.2 storage
- External access mini-PCIe and M.2 slots
- 4 x USB 3.0, 2 x USB 2.0, 2 x LAN, 6 x COM,
- Single / Dual PCI / PCIe expansion slots
- Support 12V to 30V DC input

## Front-access Industrial Fanless PC

Front-access Industrial Book PC integrates the widely-used industrial master Fieldbus communication PROFINET, PROFIBUS, DeviceNet, EtherNet/IP and EtherCAT in factory automation and PLC application.



### ◀ NIFE105

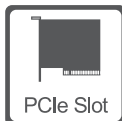
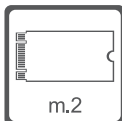
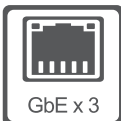
**Palm-sized DIN rail PC with Fieldbus expansion**

- On-board Intel® Atom® x5-E3930, 1.8G Hz with 4GB DDR3L and EMMC 16GB
- 1 x HDMI, 4 x USB 3.0, 2 x LAN, 2 x COM
- 2 x mini-PCIe sockets for storage / LTE / Wi-Fi / Fieldbus
- Support 24V DC input
- Family included: NIFE105 / NIFE105W

### NISE3900E ▶

**Stylish, ultra-performance  
Intel® Core™ i socket-type fanless PC,  
support Core™ i3/i5/i7 CPU**

- Support Intel® 8/9<sup>th</sup> Gen. Core™ i socket-type CPU
- 2 x DDR4 SO-DIMM, support 32GB max.
- Support both 2.5" HDD and M.2 B+M Key
- Optional dual 2.5" HDD tray, RAID 0/1 supported
- 6 x USB 3.0, 4 x USB 2.0, 3 x LAN, 4 x COM
- Support TPM 2.0
- Support 9 to 30V DC input
- Family include: NISE3900E / NISE3900E2 / NISE3900P2 / NISE3900P2E / NISE3900R / NISE3900E-H310

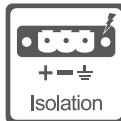
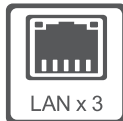


### NIFE 210-E01 ▶

**Front-access Industrial Grade Book-PC  
with Fieldbus Expansion**

- On-board Intel® Celeron® Processor J6413
- 1 x DDR4 SO-DIMM 2666 MHz, up to 32GB
- 1 x mPCIe (PCIe x1 / USB2.0 / SATA)
- 1 x mPCIe for FBI Module (PCIe x1 / USB2.0)
- 1 x M.2 B key 3042 (PCIe x1 / USB 3.0)
- Support optional embedded UPS module
- Comply with EN61010-1 + EN61010-2-201
- Family include: NIFE 210-E11

*New*



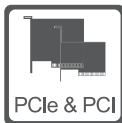
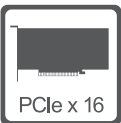




## Smart Functional PC

Intel® Core™ empowering automation PC with expandable slots for AOI, robotics, vision recognition and factory intelligent automation.

*New*



### ◀ TT300-F30

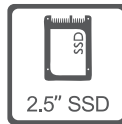
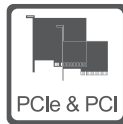
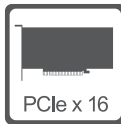
Cutting-edge, Intel® Core™ i socket-type fanless PC, PCIe x16 GPU slot

- Support Intel® 6/7/8/9<sup>th</sup> Gen. Core™ i socket-type CPU
- Support Microsoft Windows 7/10
- Support both internal 2.5" HDD and M.2 storage
- 4 x USB 3.0, 2 x LAN, 6 x COM
- 3 x PCI / PCIe expansion slots, including PCIe x16
- Support Wall / Side-mounting kits
- Support 12 & 24VDC input

### TT300-A2Q ▶

AI Edge, Intel® Core™ i Socket-type IPC with 2 x PCIe slots

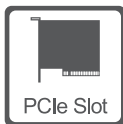
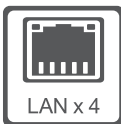
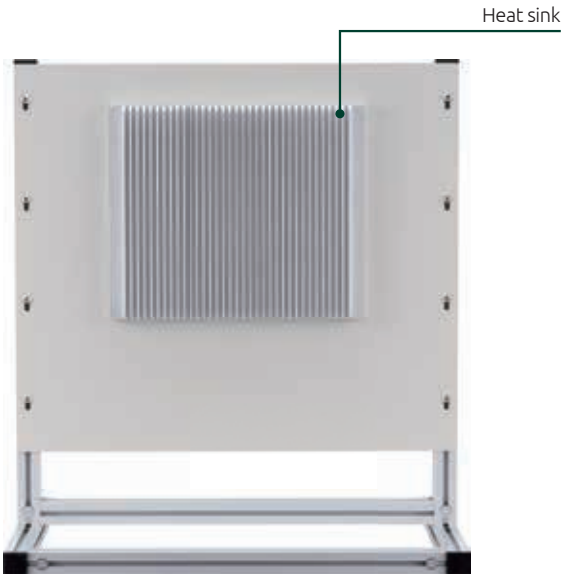
- Support Intel® 12/13<sup>th</sup> Gen. Core™ i7/i5/i3 socket type processor
- 1 x DDR5 SO-DIMM 4800MHz, up to 32GB
- 1 x M.2 B key 3042/3052 (PCIe x1 / USB 3.0 / USB2.0)
- 1 x M.2 M key 2280 (PCIe x4, SATA)
- 2 x RS232/422/485 + 6 x RS232
- 2 x PCIe x4
- Family include: TT300-A3Q



## Cabinet Mount Fanless PC

IP65 heatsink designed and high-computing platform for harsh environment in renewable energy market.

*New*



### CMC300-F22 ▲

Cabinet-mount fanless controller, SCADA and control server grade

- Support Intel® 8/9<sup>th</sup> Gen. Core™ i socket-type CPU
- Support 2 x External 2.5" SSD trays
- 1 x DVI-D, 2 x LAN, 2 x USB 2.0, 2 x USB 3.0, 1 x COM
- Built-in control cabinet: Thermal dissipation direct to air environment with IP65 protection
- Support 2 x PCIe x4 slots
- Industrial EMC Certification (EN 61000-6-2 / EN 61000-6-4)
- Support power 24 V DC input
- Family include: CMC300-F23 / CMC300-F03 (slim type without expansion slot)

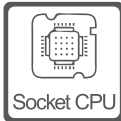




## Panel PC Series

A full line of HMIs (Human Machine Interface) with IP66 certified LCD front panel in sizes from 8" to 21".  
The ideal choice for demanding HMI applications including factory, marine and building/home automation.

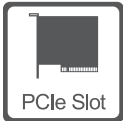
*New*



Socket CPU



DP in



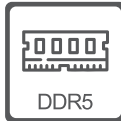
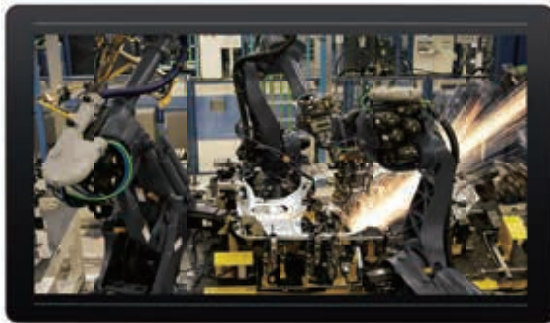
PCIe Slot

### ◀ IPPC1611-C11

#### 15.6" TFT HD 16:9 / P-Cap Touch Industrial Panel-mount PC

- 10<sup>th</sup> Gen. Intel® Core™ i & Celeron processor (Comet Lake-S)
- Resolution: 1366 x 768
- 10 points P-Cap touch with zero bezel flush panel design
- 2 x DDR4 2933MHz DRAM, up to 64GB (non-ECC)
- 1 x M.2 2242 Key B (PCIex1 / USB 2.0 / SATA)
- 1 x PCIe x4 slot, 1 x isolated RS232/422/485 + 1 x RS232
- Power input w/ 24VDC

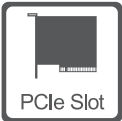
*New*



DDR5



USB-C



PCIe Slot

### ◀ IPPC2460-A11

#### 23.8" TFT FHD 16:9 / P-Cap Touch Industrial Panel-mount PC

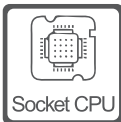
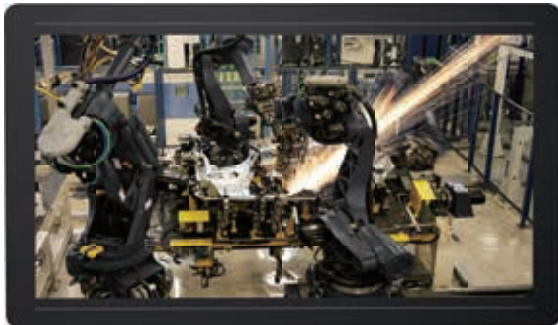
- Intel® Celeron N97 processor (Alder Lake N)
- Resolution: 1920 x 1080
- Supports DDR5 4800MHz DRAM, up to 16GB (non-ECC)
- Dual Intel® 2.5GbE LAN ports
- Support 2nd display via 1 x DP 1.4 & 1 x USB-C
- 1 x PCIe x1 slot, 2 x RS232/422/485 ports
- Power input w/ 24VDC

### IPPC2411-C11 ▶

#### 23.8" TFT FHD 16:9 / P-Cap Touch Industrial Panel-mount PC ed

- 10<sup>th</sup> Gen. Intel® Core™ i & Celeron processor (Comet Lake-S)
- Resolution: 1920 x 1080
- 10 points P-Cap touch with zero bezel flush panel design
- 2 x DDR4 2933MHz DRAM, up to 64GB (non-ECC)
- 1 x M.2 2242 Key B (PCIex1 / USB 2.0 / SATA)
- 1 x PCIe x4 slot, 1 x isolated RS232/422/485 + 1 x RS232
- Power input w/ 24VDC

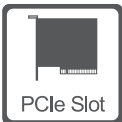
*New*



Socket CPU



DP in



PCIe Slot

### APPC1560-A11 ▶

#### 15" TFT XGA 4:3 / 5 wires RTP Panel-mount PC

- Intel® Celeron N97 processor (Alder Lake N)
- Resolution: 1024 x 768
- Supports DDR5 4800MHz DRAM, up to 16GB (non-ECC)
- Dual Intel® 2.5GbE LAN ports
- Support 2nd display via 1 x DP 1.4 & 1 x USB-C
- 1 x PCIe x1 slot
- Power input w/ 24VDC
- Support 24V DC input

*New*



DDR5



USB-C



PCIe Slot





## Transportation Computer

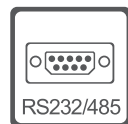
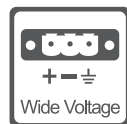
All-in-one Panel PC acts as a useful tool for passenger information applications. A ruggedized design improves durability to fit into indoor and outdoor environments.



### ◀ TPPC 2201

#### e-Mark 16:9 21.5" fanless panel computer

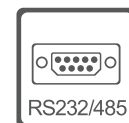
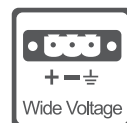
- On-board Intel® Atom® x5-E3930, 1.3G Hz with 8GB DDR3L
- Compliant with IP54 on the front panel
- Support 2.5" SATA SSD and M.2 storage
- Support ignition control
- 1 x HDMI, 4 x USB 3.0, 2 x LAN, 1 x COM
- 1 x mini-PCIe expansion for Telematic
- Certified in-vehicle standard: E/e-Mark
- Support 9 to 36V DC input
- Family include: 21.5 (TPPC2201) / 23.8 (TPPC2401) / 27" (TPPC2701) / 31.5" (TPPC3201)



### TPPC 2902 ▶

#### e-Mark 28.8" 1920x600 bar-type fanless panel computer

- Intel® Atom® x5-E3930, 1.3G Hz with 8GB DDR3L
- Compliant with IP54 on the front panel
- Support 2.5" SATA SSD and M.2 storage
- Support ignition control
- 1 x HDMI, 4 x USB 3.0, 2 x LAN, 1 x COM
- 1 x mini-PCIe expansion for Telematic
- Certified in-vehicle standard: E/e-Mark
- Support 9 to 36V DC input



## Marine Computer

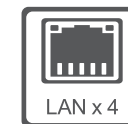
Provides robust and reliable marine computers including high performance fanless computers, various sizes of applied panel PCs and displays. All marine solutions are built and tested according to critical industrial standards to ensure compliance.



### ◀ PPC-080T-BT-01

#### Maritime certified, slim and ruggedized panel PC

- On-board Intel® Atom® E3845, 1.91G Hz with 4GB DDR3L
- 16:9 8" WVGA marine PC
- Support 2.5" SATA SSD and M.2 storage
- Auto dimming function
- IP65 compliant front panel
- Mounting support: flush / VESA 75mm x 75mm
- IEC 60945 maritime standards compliance
- Support 24V DC power input

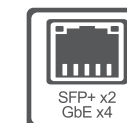
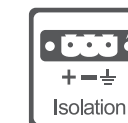


### CE-CL ▶

#### Marine certified, fanless box PC

- Support Intel® 8/9<sup>th</sup> Gen. Core™ i socket-type CPU
- Dual channel DDR4 support, support 64GB max.
- 3 x DP display output
- 2 x Gb SFP+ and 4 x GbE LAN
- 4 x USB 3.0, 1 x COM
- M.2 SATA/NVMe storage supported
- IEC 60945 maritime standards compliance
- Support TPM 2.0
- Built in 24V DC isolated power module or 115-230V AC power module

*New*





# L1 Factory & Motion Automation Product

## Industry 4.0 CPS-ready Controller

This three-in-one controller combines the PLC, IPC, and smart gateway for cloud services connection. It integrates SoftPLC, AOI, IoT Studio, dashboard, OPC UA and cloud connectivity, such as MQTT, RESTful API & OPC UA Server. This controller provides one-stop seamless connection and compatibility with world-renowned SCADA, MES, and ERP systems. It also supports industrial Ethernet and Field bus protocols, including EtherCAT, PROFINET, EtherNet/IP, PROFIBUS, and DeviceNet that can be connected to other PLCs and Remote I/O.



SoftMotion/SoftPLC



Web HMI

## CODESYS

**CODESYS is the leading manufacturer IEC 61131-3 automation software for engineering control systems**

- ♦ IEC 61131-3 multiple programming grammars that reduces learning time
- ♦ Fast cycle time : 50µs
- ♦ Max. number of tasks: 100 (Cyclic, Event...)
- ♦ Support industry Fieldbus protocols: PROFINET, EtherNet/IP, EtherCAT and Modbus TCP
- ♦ OPC UA Server
- ♦ Multi-axis Motion Control
- ♦ Supports 255-axis motion control and does not require additional hardware configuration
- ♦ PLC Handler (Share memory API)
- ♦ SoftPLC / SoftMotion / CNC
- 3 types of license

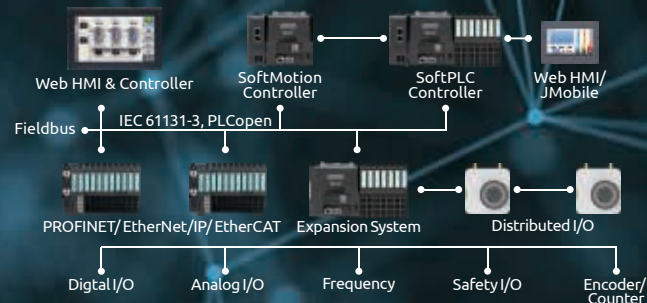
## JMobile

**The complete HMI software Control and Visualization Anywhere at Anytime**

- ♦ Remote Monitor, Control, and Maintenance Functionality
- ♦ Software functions : Alarm management, Recipe, Trend, Database, Audit Log, Permission, Support HTML 5 and JavaScript
- ♦ Support for all industrial communication protocols, up to 4 simultaneous
- ♦ Rich set of symbols, widgets and advanced functions (e-mail, RSS, PDF Reporting Scheduler, HTML5 Browser)
- ♦ Maximum of tags : 10,000 (Support SQL)

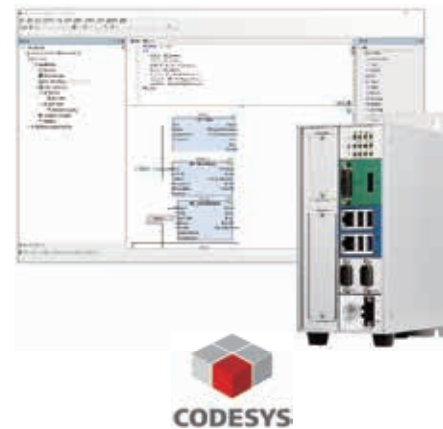


## L1: Factory & Motion Automation Product



## Automation System

- ⊙ PC-Based Controllers
- ⊙ Distributed I/O
- ⊙ Function I/O
- ⊙ SCADA and HMI



### ◀ NIFE200-P20 / M20

#### PC-based SoftPLC / SoftMotion controller

- ♦ On-board Intel® Celeron® J1900, 2.42GHz with 4GB DDR3L
- ♦ Front access 1 x 2.5" SSD/HDD tray and 1 x Fieldbus card socket
- ♦ CODESYS Runtime license and Windows 7/10 pre-installed
- ♦ P20 for SoftPLC, M20 for SoftMotion
- ♦ One non-Windows CPU core running CODESYS Runtime, standard PLCopen specifications
- ♦ Support 24V DC input
- ♦ Certified UL 60950 and Industrial EMC Certification (EN 61000-6-2 / EN 61000-6-4)



### ◀ APPC1540T-P20 / M20

#### PC-based HMI and SoftPLC / SoftMotion controller

- ♦ 15" 4:3 5-wires resistive touch automation Panel PC
- ♦ On-board Intel® Celeron® J3455, 1.5GHz with 4GB DDR3L
- ♦ CODESYS Runtime license and Windows 7/10 pre-installed
- ♦ P20 for SoftPLC, M20 for SoftMotion
- ♦ One non-Windows CPU core running CODESYS Runtime, standard PLCopen specifications
- ♦ Support 24V DC input
- ♦ Optional NVRAM module
- ♦ Optional HMI Runtime : JMobile PC Runtime
- ♦ Family include: APPC0840T / APPC1245T / APPC1940T

New



### ◀ nPAC Series

#### NexAIoT Programmable Automation Controller

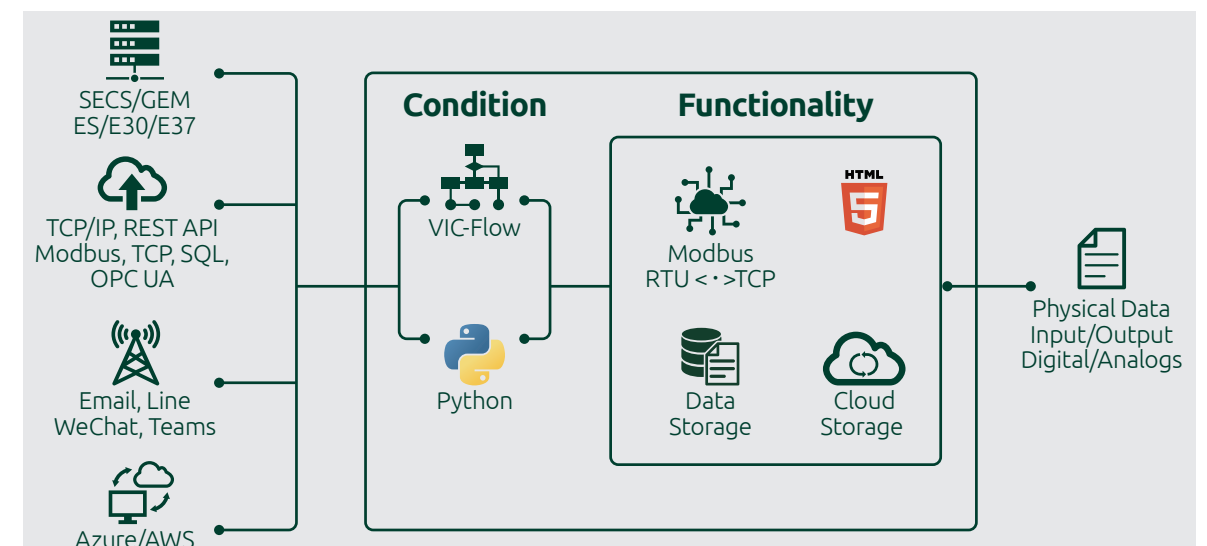
- ♦ 12<sup>th</sup> Gen. Intel® Elkhart Lake processor
- ♦ CODESYS Runtime - IEC61131-3 PLC Open
- ♦ Support SoftPLC, SoftMotion, SoftCNC
- ♦ Support rich I/O modules and extension module
- ♦ 3x GLANs, 1x HDMI, 3x USB, 1x RS485, NVRAM



### ◀ nDAS6000 Series

#### NexAIoT Smart I/O System

nDAS is a data acquisition system that can be applied in energy management, remote control, HVAC & AUQA, etc., and Industrial communication requires data exchange.





An aerial photograph of a port area with several ships docked at a pier. Overlaid on the image is a network diagram consisting of white dots connected by white lines, representing a connectivity network. The dots are positioned at various points across the port and surrounding industrial area.

# L2 M2M, IoT Connectivity Gateway

## Comprehensive Factory Equipment Network Solution

iAT2000 provides a complete solution for various devices and controllers in the factory, it connects to:

- Industrial field bus gateway with real-time PLC requirements.
- World-renowned CNC controllers, including CNC gateways of FOCAS, OPC UA, EZSocket, and LSV2.
- Famous industrial robot controllers, including KUKA, ABB, FAUNC, and YASKAWA robot gateways.
- Non-intrusive gateways that cannot provide protocols by converting images to digital communication including page -turning mechanism.

nexUA



## NexUA

### NexAIoT OPC UA Server

- ♦ Web-based IoT utility
- ♦ Multi-user authentication by Windows logon and certification
- ♦ Endpoint protocol types: UA TCP & HTTPS
- ♦ Support max 500 client connections
- ♦ Flexible Node configurator

## IoT Studio

### Integrated application of OT / IT, IoT Studio & Dashboard, One Click to Cloud, support Modbus, OPCUA and more than 50 different PLC Drivers

- ♦ Web-based IoT utility
- ♦ IoT Studio: Drag-and-drop UI for IoT / Field Device / Data Source preprocessing & Data-Patch Define with Node.js
- ♦ Dashboard: Visualization for IoT Studio
- ♦ One click to Edge / Cloud
- ♦ Integrated application of OT / IT / IoT





## Integrated System

- ⊙ AI Inference
- ⊙ Wireless Gateway
- ⊙ HMI Gateway
- ⊙ PLC Gateway
- ⊙ Fieldbus Gateway
- ⊙ Vision Gateway
- ⊙ Robot Gateway
- ⊙ CNC Gateway
- ⊙ PDM Gateway

*New*



## ◀ CPS 50-N01

### Arm-based slim and high C/P value IoT Gateway

- ♦ NXP i.MX8M Plus Cortex-A53 Quad Core
- ♦ Onboard 2GB LPDDR4 4.0GT/s, 32GB eMMC
- ♦ 1 x mPCIe (PCIe x1 / USB 2.0)
- ♦ 1 x M.2 E Key 2230 (USB 2.0 / SDIO / UART)
- ♦ 1 x M.2 B Key 3042/3052 (USB 3.0)
- ♦ Support optional multi-I/O add-on card
- ♦ Power input 9 to 30 VDC

*New*



## ◀ nHMI-07L

### Collect and convert field device data to IoT Edge and Cloud with HMI visualization

- ♦ Visualize Ready toolkits
- ♦ Rich set of HMI features
- ♦ Rich symbol library and project templates
- ♦ Support for more industrial communication protocols
- ♦ Remote Monitor, Control, and Maintenance Functionality
- ♦ On-line and off-line simulation
- ♦ Family include: nHMI-10M

*New*



## ◀ Vision gateway: VIC7200

### Non-intrusive vision gateway, Fab4.0 RPA solution

- ♦ On-board Intel® Celeron® J1900, 2.0G Hz, 4GB DDR3L
- ♦ 2 x GbE LAN, 1 x HDMI and DVI-I, 1 x USB 3.0, 2 x USB 2.0, 4 x COM
- ♦ NexVIC pre-installed
- ♦ Panel screen image-capture and auto-convert to digital data
- ♦ AI + ML Detection
- ♦ OCR, Color, Pattern Recognition/Matching
- ♦ Auto-Detection Page Mechanism
- ♦ Family include: VIC7100 / VIC7200 / VIC7300



## ◀ CNC gateway: SMB200

### Collect your CNC controller data in a few clicks

- ♦ Support major CNC protocols
- ♦ CNC data collection
- ♦ One gateway for multiple CNC machines (up to 10)
- ♦ Easy data sharing through SQL database



# L3 Edge Computing

## One Click to Cloud Access Eliminates the Need to Rebuild Data for Engineers

- The Planning dashboard from the automation side can be presented directly to the cloud platform.
- Supported cloud platforms include Microsoft Azure, Amazon AWS, Google Cloud, and SAP Cloud (through SAP Edge Service).

## Built-in IoT Studio the visualized and edge intelligent container platform for Cloud Services

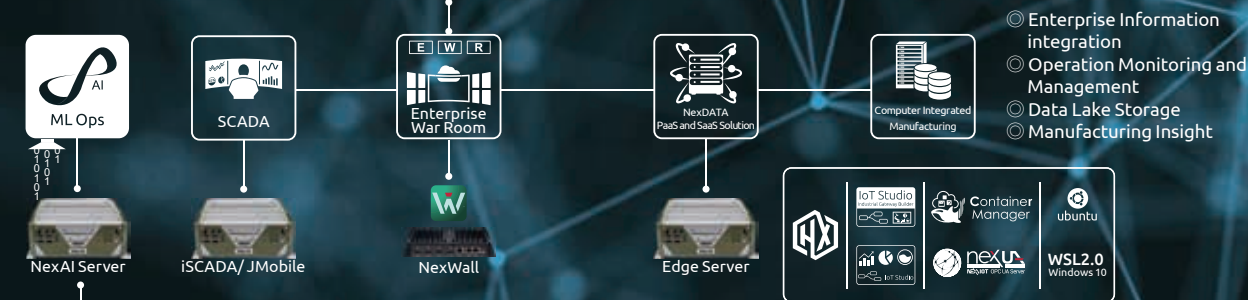
- Provide process structure and drag-and-drop programming interface.
- Built-in diversified information dashboard widgets selection.
- Support PLC field bus communication and cloud communication protocols.
- Offer the Docker manager for cloud App.



## HiveX

- ♦ IoT Studio, IoT Studio Dashboard, Container Management
- ♦ Web-based IoT utility (Yacto)
- ♦ IoT Studio: Drag-and-drop UI for IoT / Field Device / Data Source preprocessing & Data-Patch Define with Node.js
- ♦ Dashboard: Visualization for IoT Studio
- ♦ Container Management: Container management software by portainer

## L3: Edge Computing



## Edge Computing

- ⊙ Enterprise Information integration
- ⊙ Operation Monitoring and Management
- ⊙ Data Lake Storage
- ⊙ Manufacturing Insight

New



## ◀ NISE3900R-Edge

### Fanless Edge Server with one-click-deploy to any Cloud (HiveX included)

- ♦ Default Intel® 8<sup>th</sup> Gen. Core™ i7-6700TE, 3.2G Hz with 16GB DDR4
- ♦ Front access dual 2.5" 1TB HDD, RAID 0/1 supported
- ♦ Support TPM 2.0
- ♦ HiveX pre-installed, including
  - IoT Studio, drag-and-drop UI for data flow configuration
  - IoT Studio Dashboard builder
  - Container Management
  - NexUA (OPC UA Server)
  - One-click-deploy to Cloud - Azure, AWS, Alibaba, Google, SAP, Mindsphere

New



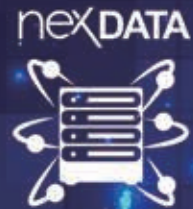
## ◀ NISE3900R-SAP

### Fanless Edge Server with SAP Edge Server on-premise edition

- ♦ Default Intel® 8<sup>th</sup> Gen. Core™ i7-6700TE, 3.2G Hz with 16GB DDR4
- ♦ Front access dual 2.5" 1TB HDD, RAID 0/1 supported
- ♦ Support TPM 2.0
- ♦ SAP Edge Server on-premise edition pre-installed
  - Essential Business Functions Service
  - Streaming Services
  - Persistence Service
  - Predictive Analytics
  - SAP SQL Anywhere database
  - HiveX pre-installed
- ♦ IoT Studio, drag-and-drop UI for data flow configuration
- ♦ IoT Studio Dashboard builder
- ♦ Container Management
- ♦ NexUA (OPC UA Server)
- ♦ One-click-deploy to Cloud – SAP S/4 HANA



# L3 Cloud-native PaaS and SaaS Solution



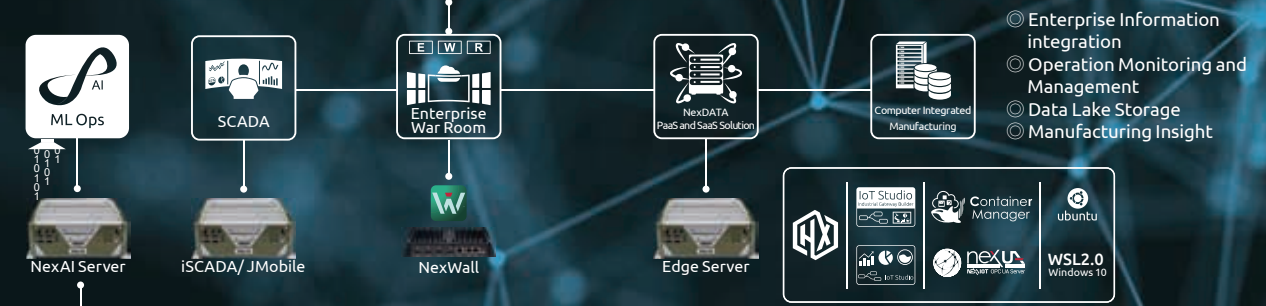
**NexDATA** is an enterprise on-premises data and application platform solution which serves as middleware in I4.0 smart factories to decouple manufacturing system hardware and software. It provides enterprises with a safe, reliable, efficient and flexible resource scheduling data center to aggregate various heterogeneous data sources and create data assets. In response to various business needs, rapidly develop data services to provide real-time insight, decision-worthy information, and visualized applications. Support enterprises in digital intelligence-oriented management and achieve the digital transformation.



## NexDATA Enterprise On-premises PaaS and SaaS Solution

- NexDATA On-premises main station (recommend Dell server and VMWare software)
- Cloud-native PaaS infrastructure
- Micro-service architecture
- API management
- Data management
- Real-time streaming ETL solution
- Analytics engine
- Continuous delivery (DevOps)
- Containerized environment
- Container orchestration
- Infrastructure automation
- Monitoring system & alert service
- Manufacturing Traceability System

## L3: Edge Computing



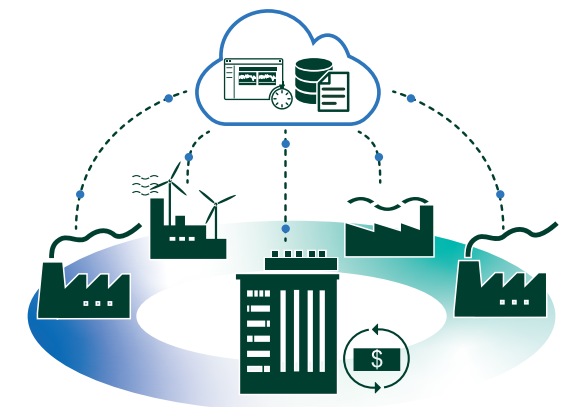
## Edge Computing

- Enterprise Information Integration
- Operation Monitoring and Management
- Data Lake Storage
- Manufacturing Insight

## NexDATA Manufacturing Traceability System

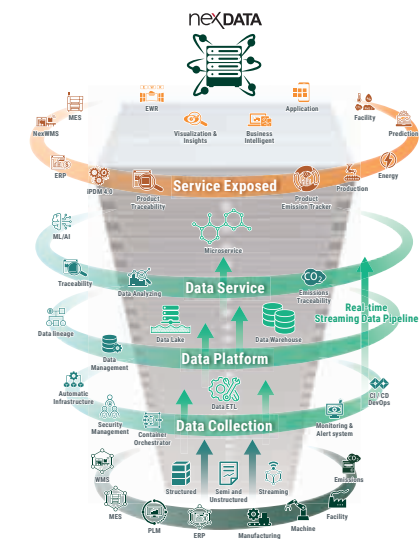
**NexDATA Manufacturing Traceability System** is a SaaS product developed according to the Internal Traceability defined in ISO 9001:2015 Clause 8.5.2 Internal Traceability. The purpose of Internal Traceability is to provide traceability of parts and products within a limited specific scope of an enterprise or factory.

- Digital traceability system
- Fully customizable and expandable (an "easily customizable" data collection system is capable of processing, editing and transmitting captured data from different sources)
- Data driven application, all processes are registered and get timestamp
- Real-time digital and transparent process, status and movement are clearly visible in the system, enabling product traceability
- Good foundation for statistical analysis, planning and control



## NexDATA On-Premises Rack System Server Specification(HA) System

- Server x3
- CPU: Intel® Xeon Gold 6346 3.1G, 16C/32T
- A:256GB
- Storage:
  - 800GB SSD SAS 15K x 2, 2.4TB 10K RPM SAS x4
  - 240GB M.2 x 2
- Network:
  - 1Gb RJ45 port x 4, 10Gb SFP+ port x4
  - RAID: Dell HBA355, BOSS-S2
- Software:
  - VMWare vSphere 7 standard x 3
  - VMWare vCenter Server Foundation x 1
  - VMWare vSAN 7 standard x 3
  - Switch x 1
  - Netgear XSM4316S







## L4

# AI Server, AIGE Series

The full name of AIGE is AI Edge series, and there are two categories in AIGE.

The first is the AIGE 101/102 Series, which is equipped with the NVIDIA Jetson Nano/ Jetson Xavier NX module. It is a small and powerful computer that can execute multiple neural networks at the same time and is suitable for image classification, object detection, segmentation and speech processing. Not only is it an easy-to-use platform, it only needs 5 watts to operate. This is a very ideal solution that can quickly produce artificial intelligence product prototypes and accelerate the time to market.

The second type is TT300 / AIGE 304 Series. It supports high-speed computing processors of Intel® Core™ i series CPU. TT300 supports 6/7/8/9<sup>th</sup> Gen., AIGE 304 also supports 8/9<sup>th</sup> Gen., coupled with a rich of I/O and Slot options, users can add any peripherals according to their own preferences, such as graphics cards, GPU cards, etc., and have a more affordable choice when making artificial intelligence products.





## ◀ NVIDIA inside - AIGE101

### Compact AI Edge, on-board NVIDIA GPU, fanless design

- ♦ Quad-core ARM Cortex-A57 MPCore CPU
- ♦ NVIDIA Maxwell™ architecture with 128 CUDA cores
- ♦ Based on NVIDIA Jetson Nano
- ♦ Support Machine Learning Applications:
  - Tensorflow, Caffe, Paddlepaddle, Keras, TensorRT, JetPack SDK, DeepStream SDK
- ♦ Ubuntu 18.04
- ♦ Build in 4GB 64-bit LPDDR4X, Build in 32G Micro SD Card
- ♦ 1 x M.2 2280 (M Key), 1 x M.2 3052 (B Key), 1 x Micro SD
- ♦ 2 x USB 3.0, 2 x LAN, 2 x COM
- ♦ Fanless, Operating Temperature: -10 to 60°C, 9 to 30 VDC



## ◀ NVIDIA inside - AIGE102

### Compact-pro AI Edge, on-board NVIDIA GPU, fanless design

- ♦ 6-core NVIDIA Carmel ARM v8.2 64-bit
- ♦ 384-core NVIDIA Volta GPU with 48 Tensor Cores
- ♦ 2\*NVDLA Engines, 7-Way VLIW Vision
- ♦ Based on NVIDIA Jetson Xavier NX
- ♦ Support Machine Learning Applications:
  - Tensorflow, Caffe, Paddlepaddle, Keras, TensorRT, JetPack SDK, DeepStream SDK
- ♦ Ubuntu 18.04
- ♦ Build in 8GB 128-bit LPDDR4X, Build in 16G eMMC
- ♦ 1 x M.2 2280 (M Key), 1 x M.2 3052 (B Key), 1 x Micro SD
- ♦ 2 x USB 3.0, 2 x LAN, 2 x COM
- ♦ Fanless, Operating Temperature: -10 to 60°C, 9 to 30VDC



## ◀ AI Workstation: TT300 (DC input)

### Fanless AI Edge, Intel® 6/7/8/9<sup>th</sup> Gen. Core™, 35W

- ♦ Support Intel® 6/7/8/9<sup>th</sup> Gen. Core™ i socket-type CPU
- ♦ Optional NVIDIA GeForce GTX 16 series graphics card (optional fan kit)
- ♦ 4 x USB 3.0, 2 x LAN, 6 x COM
- ♦ Support 16GB DDR4 max.
- ♦ 1 x M.2 2280 (M key), 1 x M.2 3042 (B key)
- ♦ 1 x PCIe x16 and 2 x PCIe x4 (signal PCIe x1) slots
- ♦ Support 12 to 24V DC input



## ◀ AI Workstation: AIGE304 (AC input)

### CP-value AI Edge, Intel® 8/9<sup>th</sup> Gen. Core™, 65W

- ♦ Support Intel® 8/9<sup>th</sup> Gen. Core™ i socket-type CPU
- ♦ Optional NVIDIA GeForce GTX 16 series graphics card
- ♦ 2 x USB 3.0, 6 x USB 2.0, 2 x LAN, 4 x COM
- ♦ Support 32GB DDR4 (16GB x 2) max.
- ♦ 1 x M.2 2280 (M key)
- ♦ 1 x PCIe x16, 1 x PCIe x1, 2 x PCIe x4 slots
- ♦ Built-in ATX 420W, 100 to 240 Vac power supply



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# Haben Sie Fragen?

# Ihr Distributor hilft Ihnen gerne weiter:

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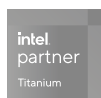
**Telefon** +49 (0) 81 41 . 36 97 - 0

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Am Sonnenlicht 5  
D-82239 Alling bei München

## [WWW.PLUG-IN.DE](http://WWW.PLUG-IN.DE)

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