NEXIOT
Your Partner in Smart Manufacturing

新漢智能
2021 IoT 自動化與產業電腦產品型錄

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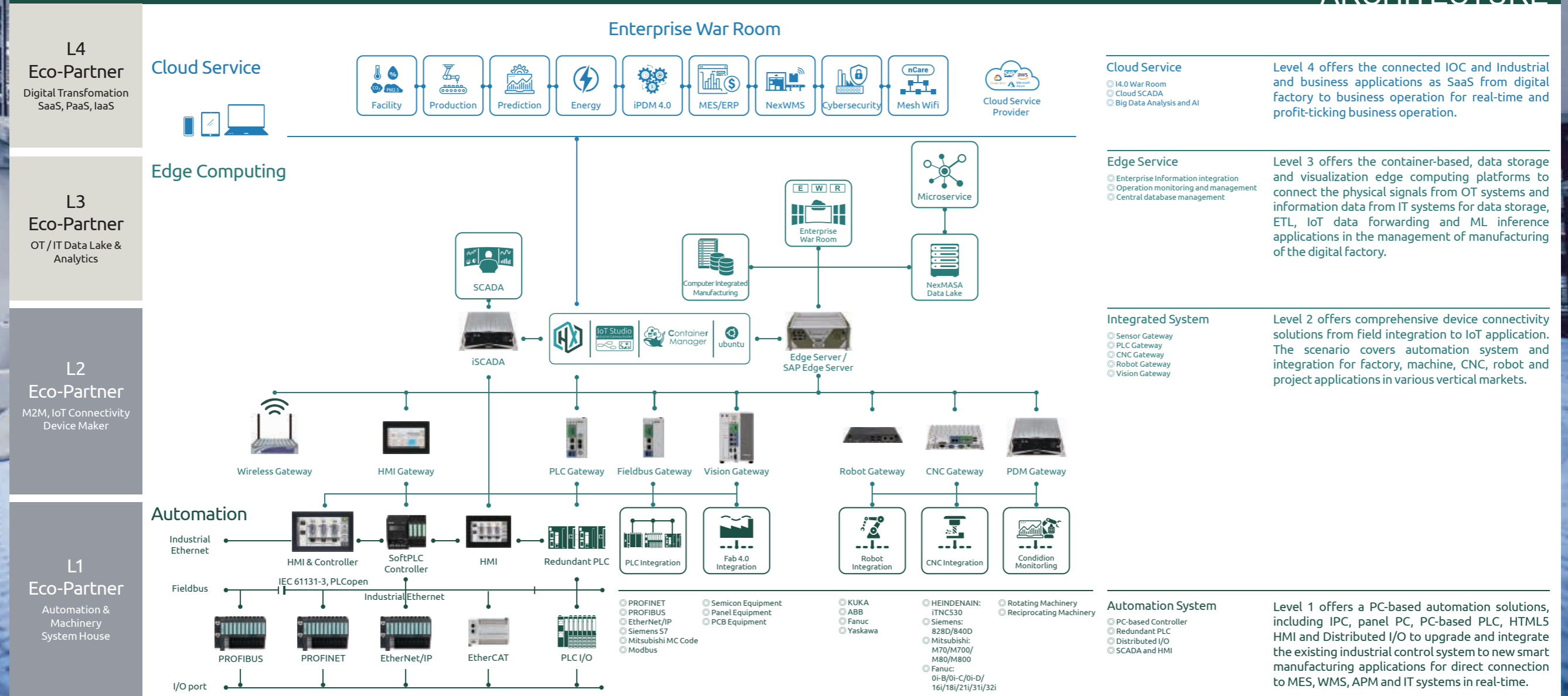- L2: M2M, IoT Connectivity Gateway
- L3: Cloud-based Edge Computing
- L4: AI Server, AIGE Series

About NexAIoT

NexAIoT, an Industry 4.0 company
Empowering industrial IoT with artificial intelligence

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

NexAIoT 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.

NexAIoT'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.

Contents

L1: Industrial PC & Panel PC

L3: Cloud-based Edge Computing

L1: Factory & Motion Automation Product

L2: M2M, IoT Connectivity Gateway

L4: AI Server, AIGE Series

iAT2000 Makes the Cyber and Physical Integration for Industry 4.0 applications

iAT2000 Cloud SCADA

L4 Eco-Partner
Digital Transfomation
SaaS, PaaS, IaaS

L3 Eco-Partner
OT / IT Data Lake & Analytics

L2 Eco-Partner
M2M, IoT Connectivity Device Maker

L1 Eco-Partner
Automation & Machinery System House

Cloud Service

Enterprise War Room

Facility | Production | Prediction | Energy | iPDM 4.0 | MES/ERP | NexWMS | Cybersecurity | Mesh Wifi | nCare

Cloud Service Provider

Edge Computing

SCADA | Computer Integrated Manufacturing | Enterprise War Room | Microservice | NexMASA Data Lake

iSCADA | IoT Studio | Container Manager | ubuntu | Edge Server / SAP Edge Server

Wireless Gateway | HMI Gateway | PLC Gateway | Fieldbus Gateway | Vision Gateway | Robot Gateway | CNC Gateway | PDM Gateway

Automation

Industrial Ethernet

HMI & Controller | SoftPLC Controller | HMI | Redundant PLC | PLC Integration | Fab 4.0 Integration | Robot Integration | CNC Integration | Condition Monitorling

IEC 61131-3, PLCopen

Fieldbus

Industrial Ethernet

PROFIBUS | PROFINET | EtherNet/IP | EtherCAT | PLC I/O

I/O port

- PROFINET
- PROFIBUS
- EtherNet/IP
- Siemens S7
- Mitsubishi MC Code
- Modbus

- Semicon Equipment
- Panel Equipment
- PCB Equipment

- KUKA
- ABB
- Fanuc
- Yaskawa

- HEINDENAIN: iTNC530
- Siemens: 828D/840D
- Mitsubishi: M70/M700/ M80/M800
- Fanuc: 0i-B/0i-C/0i-D/ 16i/18i/21i/31i/32i

- Rotating Machinery
- Reciprocating Machinery

Cloud Service
- I4.0 War Room
- Cloud SCADA
- 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 Service
- Enterprise Information integration
- Operation monitoring and management
- Central database management

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
- Sensor Gateway
- PLC Gateway
- CNC Gateway
- Robot Gateway
- Vision 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
- PC-based Controller
- Redundant PLC
- Distributed I/O
- 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.
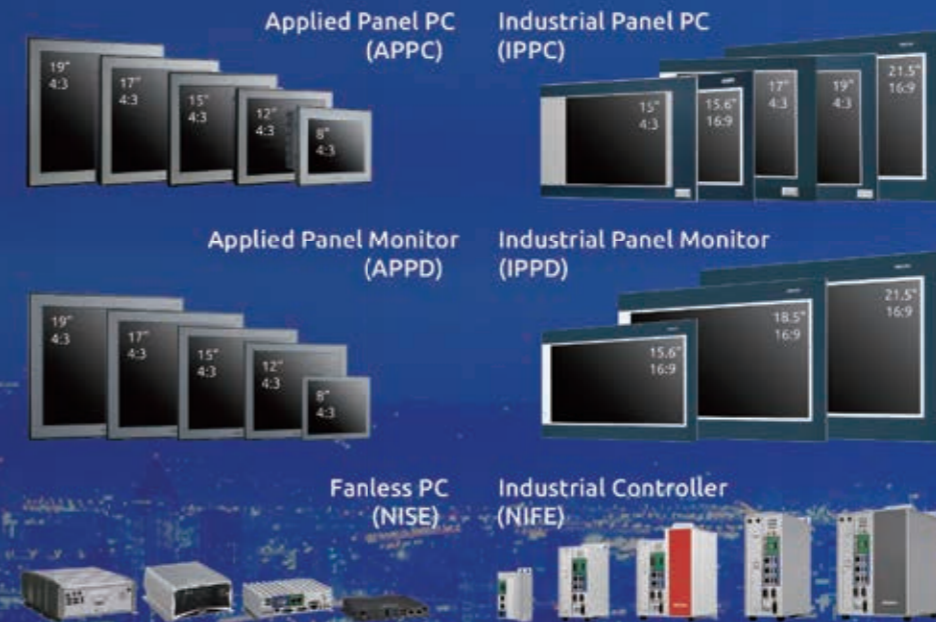
Industry 4.0 Driving Engine

IPC & Panel PC

With NexAIoT'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.

NexAIoT's IPC line covers fanless computers (NISE), industrial controller (NIFE), 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.

Applied Panel PC (APPC)

Industrial Panel PC (IPPC)

Applied Panel Monitor (APPD)

Industrial Panel Monitor (IPPD)

Fanless PC (NISE)

Industrial Controller (NIFE)

PC-Based Automation

To create an easier and faster integration of Industry 4.0, NexAIoT broke the limitation of box-PC. takes advantage of box-PC to develop PC-based automation.

NexAIoT 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 NexAIoT own brand products, NexAIoT 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 completed automation solution.

iAT2000
Cloud SCADA

2021 New Product

NISE52-A01   **NISE70-T01**   **TT300-F31**   **IPPC0811-B01**   **APPC1750T**   **CMC300-F22**   **Coeus-3601T**   **AIGE304**

L1
Industrial PC & Panel PC

With NexAIoT'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. NexAIoT's IPC line covers fanless computers (NISE/NIFE), 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.

NexAIoT 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.

◄ NISE50-J1900

Slim and cost-effective fanless PC

- On-board Intel® Celeron® J1900 quad core, 2.00GHz
- 1 x HDMI, 4 x USB 2.0, 2 x LANs, 3 x COMs
- 3 x mini-PCIe sockets for storage / LTE / Wi-Fi
- Support 12V DC input

Ultra Slim | **Gateway** | **mPCIe**

NISE52-A01 ►

Slim fanless PC with multiple I/O design

- On-board Intel® Celeron® J3455 quad core, 1.50GHz
- 3 x HDMI, 6 x USB 3.0, 2 x USB 2.0, 3 x LANs, 4 x COMs
- 2 x mini-PCIe sockets for storage / LTE / Wi-Fi
- Support 9-30V DC input

New

USB x 8 | **LAN x 3** | **HDMI in x 3**

New
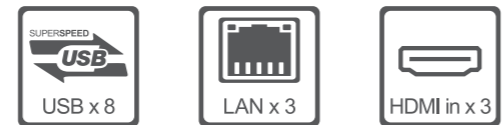
◄ NISE70-T01

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

- Default Intel® Celeron® 6305E, optional Tiger Lake Core i3/i5
- 3 x USB 3.0, 1 x USB 2.0, 3 x LANs, 2 x COMs
- 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 INTEL OpenVINO AI BOX
- Support 12 to 24V DC input

HDMI in x 4 | **GbE x 3** | **Wide Voltage**
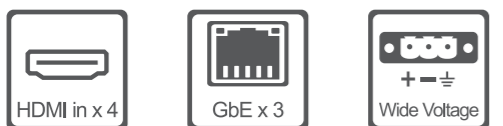
Compact and Expansion Fanless PC

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.

Wide Voltage | **Compact** | **COM x 4**

◄ NISE105U

Compact fanless PC, price killer

- Intel® Celeron® J1900 quad core, 2.00GHz, 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 LANs, 4 x COMs
- Support 1 x mini-PCIe for Wi-Fi / LTE
- Support 9 to 30V DC input
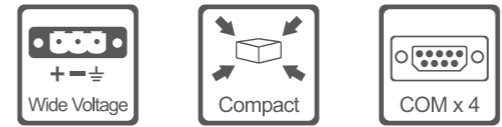
NISE107 ►

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

- Intel® Atom® Dual Core x5-E3930, 1.30 GHz, 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 LANs, 4 x COMs
- 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

Wide Temp. | **Wide Voltage** | **COM x 4**
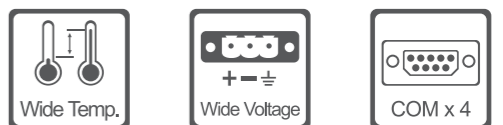
Hi-performance NISE Fanless PC

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

◀ NISE3800E

#### Hi-performance Intel®Core™ i socket fanless PC, 1 x PCIex4 slot

- Support Intel® Gen. 6/7ᵗʰ Socket-type CPU, 2 x DDR4 SO-DIMM, 32GB Max.
- Support both 2.5" HDD and M.2 storage
- Optional dual 2.5" HDD tray, RAID 0/1 supported
- 4 x USB 3.0, 2 x USB 2.0, 3 x LANs, 4 x COMs
- Support 9 to 30V DC input
- C-UL EN62368 and China CCC Certified
- Family include: NISE3800E / NISE3800E2 / NISE3800P2 / NISE3800P2E / NISE3800R / NISE3800E-H110

COM x 6 | **Certified** | **PCIe Slot**

NISE3900E ▶

Stylish, ultra-performance Intel® Core™i socket fanless PC, support Core i7/i9 CPU

- Intel® Gen. 8/9ᵗʰ socket-type CPU, 2 x DDR4 SO-DIMM, 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 LANs, 4 x COMs
- Support TPM 2.0
- Support 9 to 30V DC input
- Family include: NISE3900E / NISE3900E2 / NISE3900P2 / NISE3900P2E / NISE3900R / NISE3900E-H310

GbE x 3 | **m.2** | **PCIe Slot**
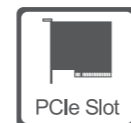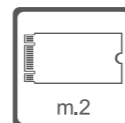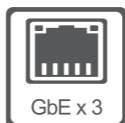
Front-access Industrial Fanless PC

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, 1.8GHz
- On-board DDR3L 4GB and EMMC 16GB
- 1 x HDMI, 4 x USB 3.0, 2 x LANs, 2 x COMs
- 2 x mini-PCIe sockets for storage / LTE / Wi-Fi / Fieldbus
- Support 24V DC input
- Family included: NIFE105 / NIFE105W

Compact | **DIN-RAIL** | **mPCIe**
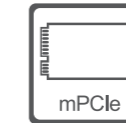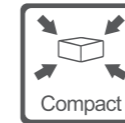
NIFE200 ▶

DIN-rail/wall-mount Automation PC with Fieldbus expansion

- On-board Intel® Celeron® J1900, 2.42GHz
- 1 x front access 2.5" SATA HDD tray for easy installation
- 1 x DP, 1 x DVI-I, 1 x USB 3.0, 3 x USB 2.0, 2 x COMs
- Dual PCI/PCIe expansion combinations
- 2 x mini-PCIe sockets for storage / LTE / WI-FI / Fieldbus
- Support 24V DC input
- Certified UL-60950 and Industrial EMC Certification (EN61000-6-2 / EN61000-6-4)
- Family include: NIFE200 / NIFE200S / NIFE200P2 / NIFE200E2

FBI Expand | **Certified** | **EMC**

2021 Fanless PC Highlight

New
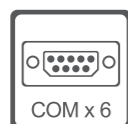
◀ NISE3600C

**Original NISE3600 success model Intel® Core™ i socket fanless PC, support MS WIN 10 and 7**

- Support Intel® Gen. 6/7/8/9th CPU, 2 x DDR4 2400 SO-DIMM socket, supports up to 16GB
- Support both internal 2.5" HDD and M.2 storage
- External access mini-PCIe and M.2 slots
- 3 x USB 3.0, 1 x USB 2.0, 2 x LANs, 6 x COMs,
- Single / Dual PCI / PCIe expansion slots
- Support 9V to 30V DC input

| PCIe & PCI | COM x 6 | Windows 7/10 |

TT300-F31 ▶

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

- Support Intel® Gen. 6/7/8/9th CPU
- Support MS WIN10 and WIN7
- Support both internal 2.5" HDD and M.2 storage
- 4 x USB 3.0, 2 x LANs, 6 x COMs
- 3 x PCI/PCIe expansion slots, including PCIe x16 GPU card
- Wall/side-mount supporting kits
- Support 12 to 30V DC input
- Optional 12 x COMs and 40 x pins GPIO (TT300-F11, Celeron)

New

5G

| PCIe x 16 | PCIe & PCI | Windows 7/10 |

New

Heat sink

| 2.5" SSD | LAN x 4 | PCIe Slot |
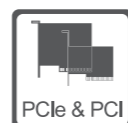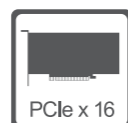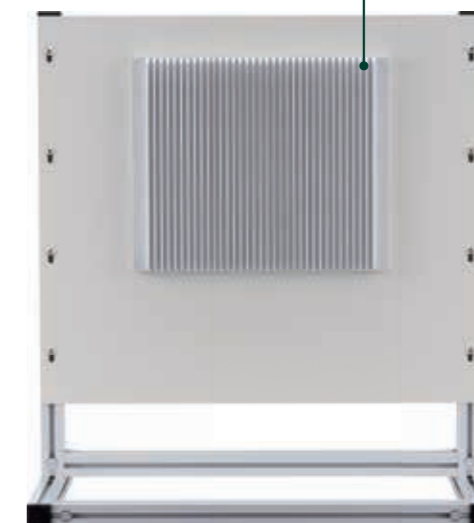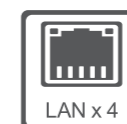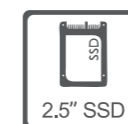
CMC300-F22 ▲

Cabinet-mount fanless controller, SCADA and control server grade

- Support Intel® Gen. 8/9th Core-i socket type CPU
- Support 2 x External 2.5" SSD trays
- 1 x DVI-D, 2 x LANs, 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 PCIex4 slots
- Industrial EMC Certification (EN61000-6-2 / EN61000-6-4)
- 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

◀ IPPC0811-B01

8" wide-screen P-Cap touch, heavy-industry panel PC

- On-board Intel® Atom® E3845 1.91GHz with 4GB DDR3L
- 4 x LANs for network securityindustrial environment application
- Auto dimming function
- Industrial EMC Certification (EN61000-6-2 / EN61000-6-4)
- Support 24V DC input (power adapter optional)
- Support VESA 75mm x 75mm, Flush Mount (optional)
- Family include: 8"(IPPC0811-B01) / 12.1"(IPPC01211-B01)

WIDE 16:9 | **Auto dimming** | **Ultra Slim**

◀ IPPC1680P

15.6" wide-screen P-Cap touch, heavy-industry panel PC, core i processor

- Intel® Core™ i5-6300U, 3.0GHz
- Aluminum front zero bezel for harsh environment
- 2x DP, 2 x LANs, 2x USB 3.0, 2 x USB 2.0, 3x COMs, 1x GPIO (4in/4out)
- 10 points P-Cap multi-touch with IP66 front protection
- 4in/4out GPIO for Open/Close Control
- Industrial EMC Certification (EN61000-6-2/ EN61000-6-4)
- Support 24V DC input (power adapter optional)
- Family include: 15.6" (IPPC1680) / 18.5" (IPPC1880P) / 21.5" (IPPC2180P)

IP66 Certified | **GPIO** | **P-Cap.**

IPPC1650P ▶

15.6" wide-screen P-Cap touch, heavy-industry panel PC, celeron processor

- On-board Intel® Celeron® J3455 1.5GHz, with 4GB DDR3L
- Aluminum front zero bezel for harsh environment
- 2x DP, 2 x LANs, 2x USB 3.0, 1 x USB 2.0, 3x COMs
- 10 points P-Cap multi-touch with IP66 front protection
- Industrial EMC Certification (EN61000-6-2/ EN61000-6-4)
- Support 24V DC input (power adapter optional)
- Family include: 10.1" (IPPC 1050P) / 15.6" (IPPC 1650P) / 18.5" (IPPC 1850P) / 21.5" (IPPC 2150P)
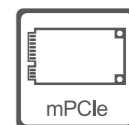
P-Cap. | **WIDE** 16:9 | **m.2**
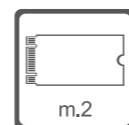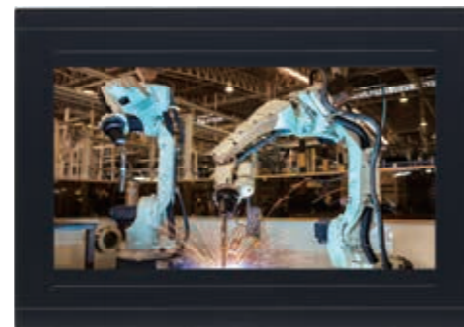
APPC1750T ▶

17" 4:3 5 wires Resistive Touch Applied Panel PC

- On-board Intel® Celeron® J3455, 1.5GHz with 4GB DDR3L
- 2 x DP up to 3 displays
- 2 x USB 3.0, 1 x USB 2.0, 2 x LANs, 3x COMs
- Support 1 x mini-PCIe and M.2 storage
- Support 24V DC input (power adapter optional)
- Family include: 12.1" (APPC1250T) / 15" (APPC1550T) / 17" (APPC1750T) / 19" (APPC1950T)

New

Plastic Bezel | **Resistive** | **mPCIe**

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

- Intel® Atom® x 5 E3930 1.3GHz 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 USB3.0, 2 x LANs, 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)

Wide Voltage | RS232/485 | E-MARK
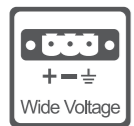
TPPC 2902 ▶

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

- Intel® Atom® x 5 E3930 1.3GHz 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 USB3.0, 2 x LANs, 1 x COM
- 1 x mini-PCIe expansion for Telematic
- Certified in-vehicle standard: E/e-Mark
- Support 9 to 36V DC input

Wide Voltage | RS232/485 | E-MARK
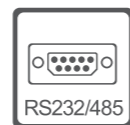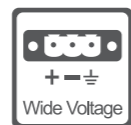
Marine Computer

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

- Intel® Atom™ E3845, Quad Core, 1.91GHz, 4GB DDR3L (default)
- 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

Auto dimming | Isolation | LAN x 4
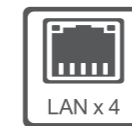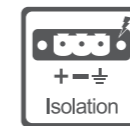
CE-CL ▶

Marine certified, fanless box PC

- Coffee Lake-S, FCLGA1151 Socket, TDP 35W CPU, Q370 chipset (Suggest: Intel® Core™ i7-9700TE / Intel® Core™ i5-9500TE/ Intel® Core™ i3-8100T Processor / Intel® Celeron® G4900T)
- Dual channel DDR4 support, max support 64G memory
- 3 DP display output
- 2 Gb SFP+ and 4 Gbe LAN
- 4 USB 3.0
- 1 RS232/422/485 isolated
- M.2 SATA/NVME storage supported
- IEC-60945 maritime standards compliance
- On-board TPM
- Built in 24V DC isolated power module or 115-230V AC power module

New

RS232/485 | Isolation | SFP+ x2
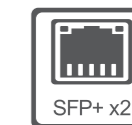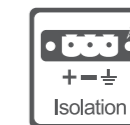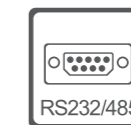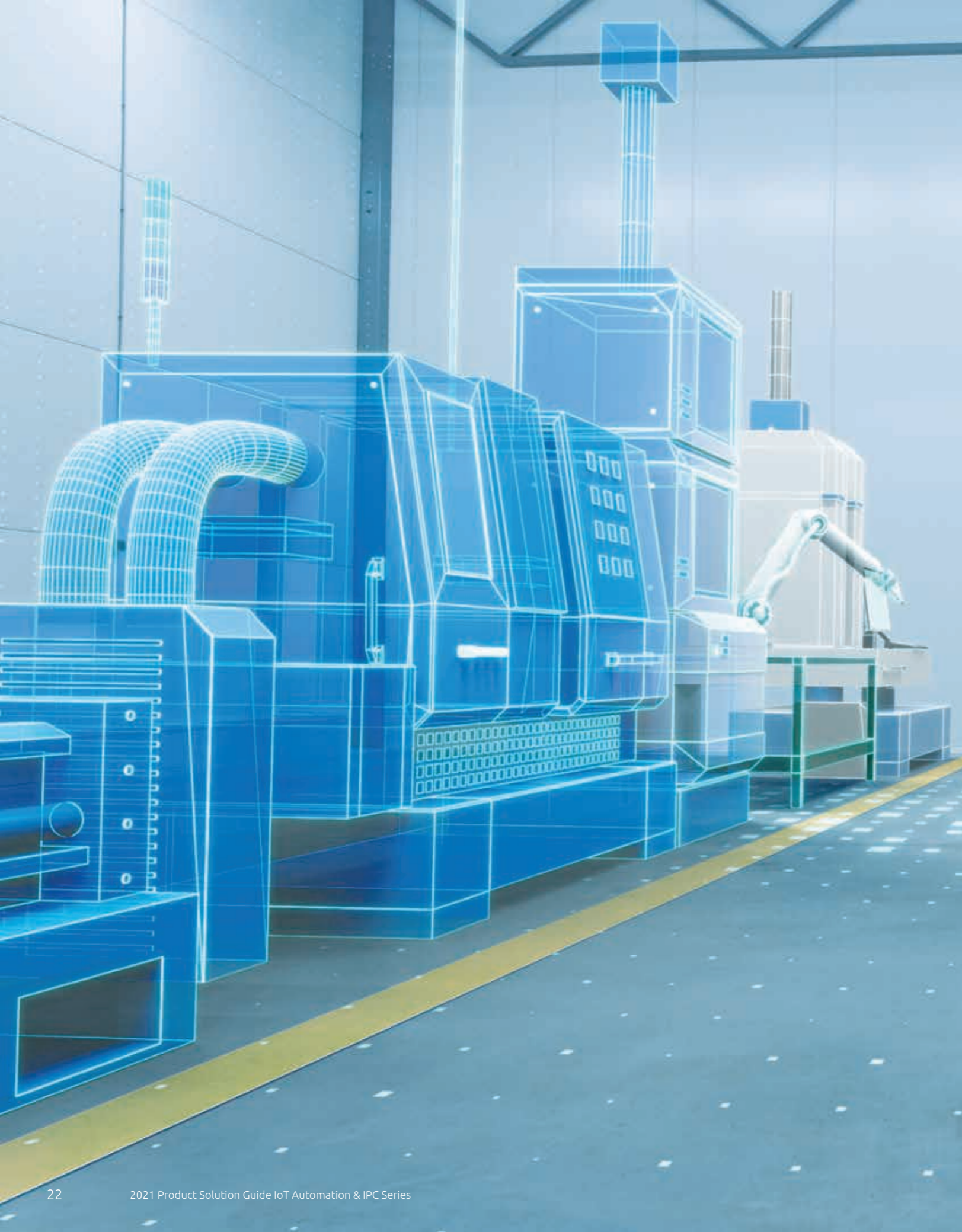
L1
Factory &
Motion Automation Product

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.

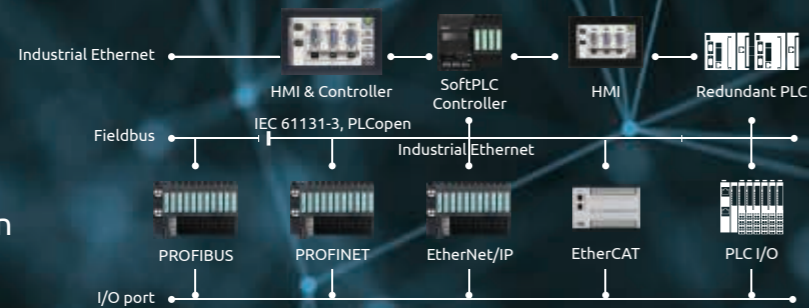 SoftMotion/SoftPLC

 Web HMI

CODESYS

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

- IEC61131-3 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 / SoftCNC 3 selection versions

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, Supports HTML5 and JS
- 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)

Industrial Ethernet — HMI & Controller | SoftPLC Controller | HMI | Redundant PLC

IEC 61131-3, PLCopen

Fieldbus — Industrial Ethernet

PROFIBUS | PROFINET | EtherNet/IP | EtherCAT | PLC I/O

I/O port

Automation System
◎ PC-based Controller
◎ Redundant PLC
◎ Distributed I/O
◎ SCADA and HMI

◀ NIFE200-P20 / M20

PC-based SoftPLC / SoftMotion controller

- On-board Intel® Celeron® J1900, 2.42GHz, 4G RAM
- Front access 1 x 2.5" SSD/HDD tray and 1 x Fieldbus card socket
- CODESYS Runtime license and WIN7/10 pre-installed
- P20 for SoftPLC version, M20 for SoftMotion version
- One non-Windows CPU core running CODESYS Runtime, standard PLCopen specifications
- Support 24V DC input
- Certified UL-60950 and Industrial EMC Certification (EN61000-6-2 / EN61000-6-4)
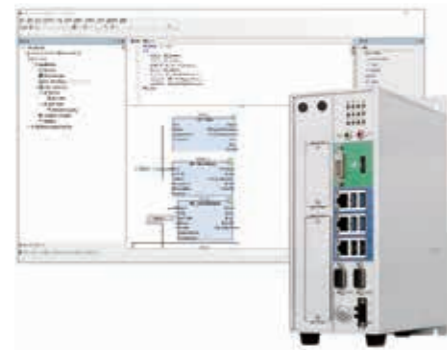
CODESYS

◀ NIFE300-P30 / M30

Intel® Core™ i, PC-based SoftPLC / SoftMotion controller

- Support Intel® Gen. 6/7th Socket-type CPU
- Front access 1 x 2.5" SSD/HDD tray and 1 x Fieldbus card socket
- CODESYS Runtime license and WIN7/10 pre-installed
- P30 for SoftPLC version, M30 for SoftMotion version
- One non-Windows CPU core running CODESYS Runtime, standard PLCopen specifications
- Support 24V DC input
- Industrial EMC Certification (EN61000-6-2 / EN61000-6-4)
- Optional NVRAM module
- Optional HMI Runtime: JMobile

CODESYS

◀ APPC1540T-P20 / M20

PC-based HMI and CODESYS's SoftPLC / SoftMotion HMI 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 WIN7/10 pre-installed
- P20 for SoftPLC version, M20 for SoftMotion version
- One non-Windows CPU core running CODESYS Runtime, standard PLCopen specifications
- Support 24V DC input
- Optional NVRAM module
- Optional HMI Runtime : JMobile
- Family include: APPC0840T / APPC1245T / APPC1940T

CODESYS **J**

◀ VIPA I/O

Fieldbus (Modbus, EtherCAT, ProfiNet, EtherNet/IP) distributed I/O system

- Din-rail and slide plug-in design
- Power: DC 24V, 4 A; 10 A

I/O modules

- DI: 4/8 PNP, 8 NPN
- DO:2 Relay, 4/8 PNP; NPN
- AI: 2/4; 12/16-bit, Voltage 0...10 V, Voltage -10...10 V, Current 0…20 mA
- AO: 2/4; 12/16-bit, Voltage 0...10 V, Voltage -10...10 V, Current 0…20 mA
- Counter: 32-bit, DC 24V, 0.5 A , Up to 400 kHz
- Fast IO: 4, 2 μs...4ms, DC 24V
- SSI Encoder: Frequency 125 kHz...2 MHz
- DC Motor: 2-channel with feedback , 4 inputs/ outputs DC 24 V, PWM clock frequency 32 kHz

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

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
◎ Sensor Gateway
◎ PLC Gateway
◎ CNC Gateway
◎ Robot Gateway
◎ Vision Gateway

iSCADA

IoT Studio

Container Manager

ubuntu

Edge Server /
SAP Edge Server

Wireless Gateway

HMI Gateway

PLC Gateway

Fieldbus Gateway

Vision Gateway

Robot Gateway

CNC Gateway

PDM Gateway

New

◄ PLC gateway: CPS200-M

Collect and convert field device data to IoT Edge and Cloud

- Support up to 100+ world-brand PLC drivers
- IoT Studio software pre-installed, support one-click-deploy to any Cloud function
- Built-in standard OPC UA server (NexUA), support OT/IT bi-direction data transfer
- Support DOCKER and Container Management

◄ 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

◄ HMI gateway: eLITE610

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

- 10.1" TFT, 1024 x 600, Resistive touch, Intel Atom CPU
- 2 x GbE LAN, 2 x USB 3.0, 1 x RS232 / 422 / 485 port
- Web HMI, JMobile runtime included
- Full vector graphic support. Native support of SVG graphic objects. Transparency and alpha blending
- Support up to 200+ world-brand PLC drivers
- Maximum of tags : 10,000 (Support SQL)
- Supports HTML5 and JS

New

◄ Vision gateway: VIC7200

Non-intrusive vision gateway, Fab4.0 RPA solution

- On-board Intel® Celeron® J1900 Quad-Core 2.0GHz, 4G DDR3L RAM
- 2 x GbE LAN, 1 x HDMI and DVI-I, 1 x USB 3.0, 2 x USB 2.0, 4 x COMs
- 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: VIC 7100 / VIC 7200 / VIC 7300

L3
Cloud-based
Edge Computing

Edge Service
◎ Enterprise Information integration
◎ Operation monitoring and management
◎ Central database management

Microservice

E W R
Enterprise
War Room

SCADA

Computer Integrated
Manufacturing

NexMASA
Data Lake

One Click to Could 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 interfac Built-in diversified information dashboard widgets selection.
Support PLC field bus communication and cloud communication protocolsOffer the Docker manager for cloud App.

HiveX

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
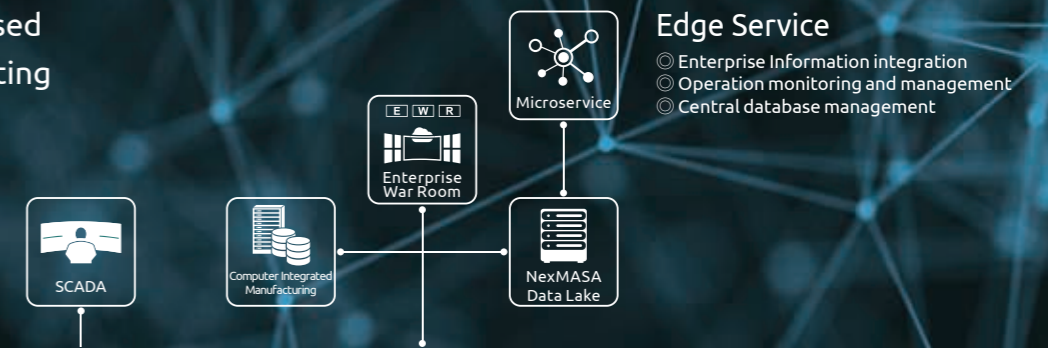
New

◄ **NISE3900R-Edge**

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

- Intel® Core™ i7 Coffee Lake 3.2GHz, 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

- Intel® Core™ i7 Coffee Lake 3.2GHz, 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 included
  - 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 – SAP C/4 HANA, S/4 HANA

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 Coeus Series, which is equipped with the NIVIDIA 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 6/7/8/9th Gen., AIGE 304 also supports 8/9th 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.

New

◂ Coeus-3400 Series

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

- Quad-core ARM Cortex-A57 MPCore processor
- 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 LANs, 2 x COMs
- Fanless, Operating Temperature: -10 to 60°C, 9-30 VDC

New

◂ Coeus-3600 Series

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 LANs, 2 x COMs
- Fanless, Operating Temperature: -10 to 60°C, 9-30V DC

New

◂ AI Workstation: TT300 (DC input)

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

- Support Intel® Core™ i7/i5/i3 socket type processor
- Optional NVIDIA GTX up to 16 series graphics card (optional fan kit)
- 4 x USB 3.0, 2 x LANs, 6 x COMs
- Support up to 16GB DDR4
- 1 x M.2 2280 (M key), 1 x M.2 3042 (B key)
- 1 x PCIex16 and 2 x PCIex4 (signal PCIex1) slots
- Support 12 to 24V DC input

New

◂ AI Workstation: AIGE304 (AC input)

CP-value AI Edge, 8/9th Gen Intel® Core™, 65W

- Support Intel® Core™ i9/i7/i5/i3 socket type processor
- Optional NVIDIA GTX up to 16 series graphics card
- 2 x USB 3.0, 6 x USB 2.0, 2 x LANs, 4 x COMs
- Support up to 32GB DDR4 (16G*2)
- 1 x M.2 2280 (M key)
- 1 x PCIex16, 1 x PCIex1, 2 x PCIex4 slots
- Built-in ATX 420W, 100 to 240 Vac power supply

NEXAIOT 新漢智能系統股份有限公司

Industry 4.0 and Cloud Services

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Your Partner in Smart Manufacturing