NEXAIOT
Your Partner in Smart Manufacturing

nexaiot

2021 Product Solution Guide
IoT Automation & IPC Series

- 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

intel
partner
Titanium

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.

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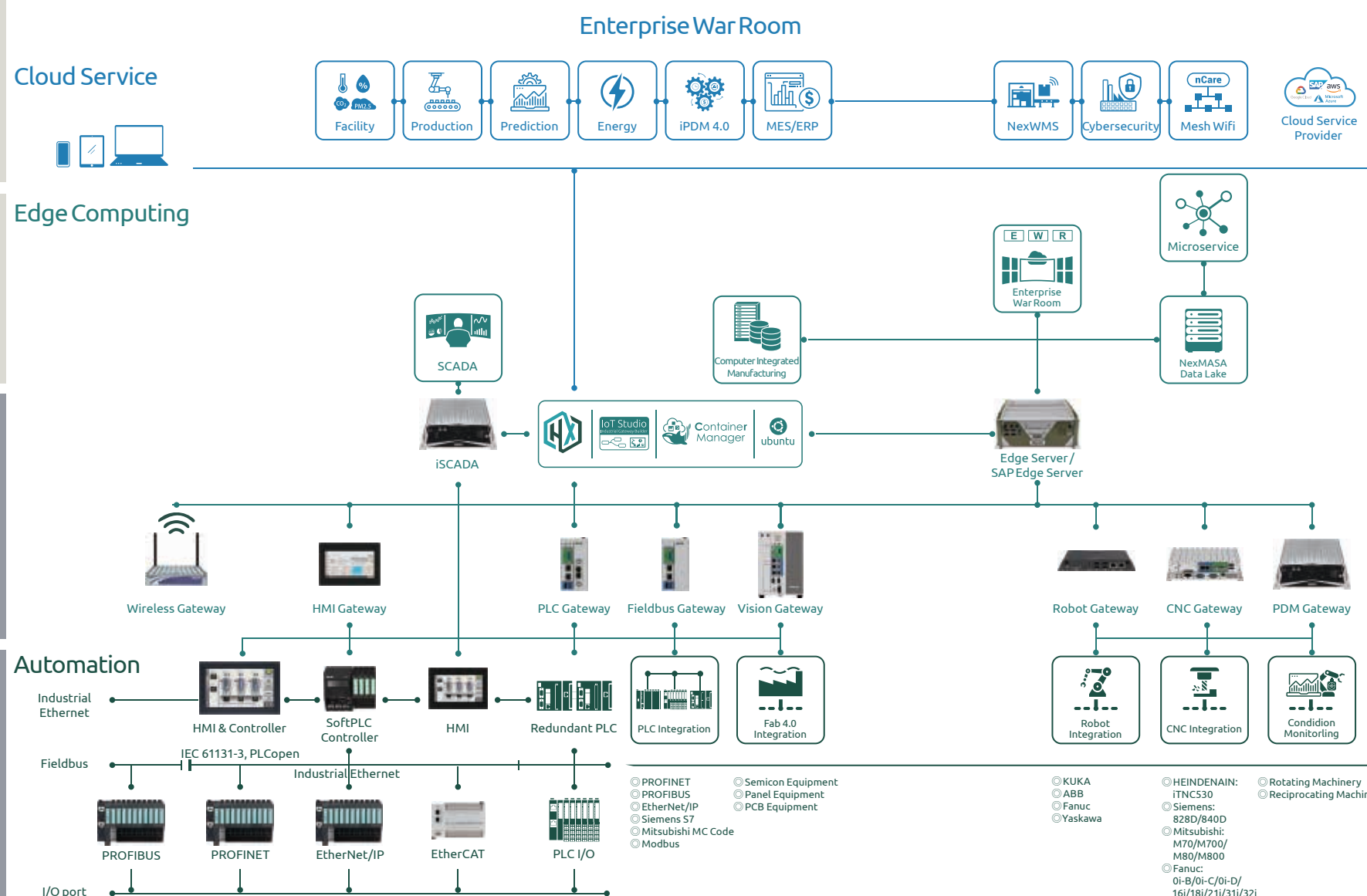**5% OFF**

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iAT2000 Makes the Cyber and Physical Integration for Industry 4.0 applications

iAT2000 Cloud SCADA

SYSTEM ARCHITECTURE

L4 Eco-Partner
Digital Transfomation SaaS, PaaS, IaaS

Cloud Service

Enterprise War Room

Facility | Production | Prediction | Energy | iPDM 4.0 | MES/ERP | NexWMS | Cybersecurity | Mesh Wifi | Cloud Service Provider

Cloud Service
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.
- I4.0 War Room
- Cloud SCADA
- Big Data Analysis and AI

L3 Eco-Partner
OT / IT Data Lake & Analytics

Edge Computing

Microservice

E W R — Enterprise War Room

SCADA

Computer Integrated Manufacturing

NexMASA Data Lake

Edge Service
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.
- Enterprise Information integration
- Operation monitoring and management
- Central database management

L2 Eco-Partner
M2M, IoT Connectivity Device Maker

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

Integrated System
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.
- Sensor Gateway
- PLC Gateway
- CNC Gateway
- Robot Gateway
- Vision Gateway

L1 Eco-Partner
Automation & Machinery System House

Automation

Industrial Ethernet

HMI & Controller | SoftPLC Controller | HMI | Redundant PLC | PLC Integration | Fab 4.0 Integration | Robot Integration | CNC Integration | Condidion 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
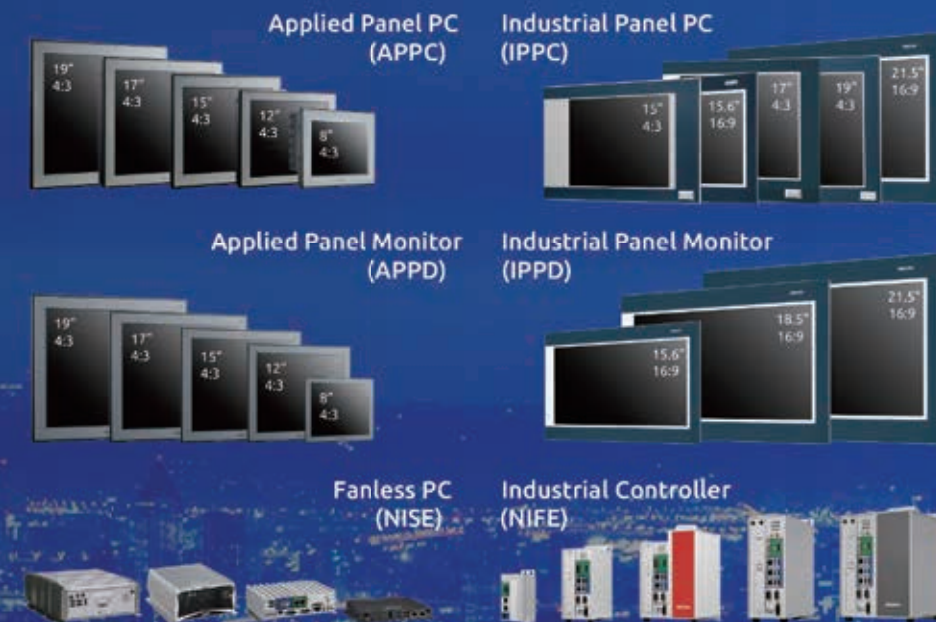- Reciprocating Machinery

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

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.

2021 New Product

5G

NISE52-A01   NISE70-T01   TT300-F31   IPPC0811-B01   APPC1750T   CMC300-F22   AIGE102   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.
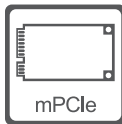
◄ NISE50-J1900

Slim and cost-effective fanless PC

- On-board Intel® Celeron® J1900, 2.00G Hz
- 1 x HDMI, 4 x USB 2.0, 2 x LAN, 3 x COM
- 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, 1.50G Hz
- 3 x HDMI, 6 x USB 3.0, 2 x USB 2.0, 3 x LAN, 4 x COM
- 2 x mini-PCIe sockets for storage / LTE / Wi-Fi
- Support 9 to 30V DC input

New

USB x 8	LAN x 3	HDMI in x 3
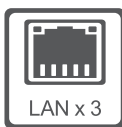
New
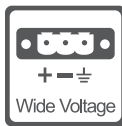
◄ NISE70-T01

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

- Default Intel® Celeron® 6305E, optional Intel® 11th Gen. Core™ i CPU
- 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 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.
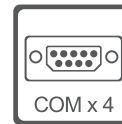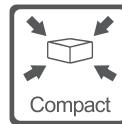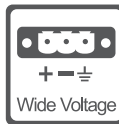
◄ NISE105U

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

Wide Voltage	Compact	COM x 4

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

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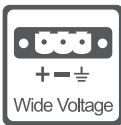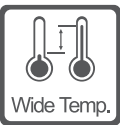
Hi-performance NISE Fanless PC

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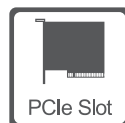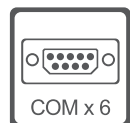

◀ NISE3800E

Hi-performance Intel® Core™ i socket-type fanless PC, 1 x PCIe x4 slot

- Support Intel® 6/7th Gen. Core™ i socket-type CPU, 2 x DDR4 SO-DIMM, support 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 LAN, 4 x COM
- Support 9 to 30V DC input
- C-UL EN 62368 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-type fanless PC, support Core™ i7/i9 CPU

- Support Intel® 8/9th 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

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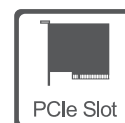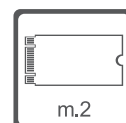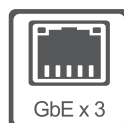
Front-access Industrial Fanless PC

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.
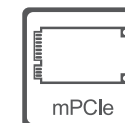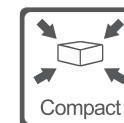
◀ NIFE105

Palm-sized DIN rail PC with Fieldbus expansion

- On-board Intel® Atom® x5-E3930, 1.8G 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

**Compact**   **DIN-RAIL**   **mPCIe**

NIFE200 ▶

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

- On-board Intel® Celeron® J1900, 2.42G Hz, 2 x DDR3L, support 8GB max.
- 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 (EN 61000-6-2 / EN 61000-6-4)
- Family include: NIFE200 / NIFE200S / NIFE200P2 / NIFE200E2

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

2021 Fanless PC Highlight

New
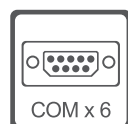
◀ NISE3600C

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

- Support Intel® 6/7/8/9th Gen. Core™ i socket-type CPU, 2 x DDR4 2400 SO-DIMM socket, support 16GB max.
- 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 LAN, 6 x COM,
- 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-type
fanless PC, PCIe x16 GPU slot

- Support Intel® 6/7/8/9th 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 GPU card
- Wall/side-mount supporting kits
- Support 12 to 30V DC input
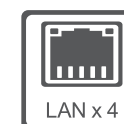- Optional 12 x COM and 40 x pins GPIO (TT300-F11, Intel® Celeron®)

New 5G

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

New

Heat sink

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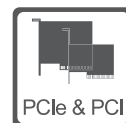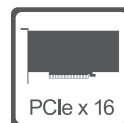
CMC300-F22 ▲

Cabinet-mount fanless controller, SCADA and control server grade

- Support Intel® 8/9th 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

◀ IPPC0811-B01

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

- On-board Intel® Atom® E3845, 1.91G Hz with 4GB DDR3L
- 4 x LAN for network security industrial environment application
- Auto dimming function
- Industrial EMC Certification (EN 61000-6-2 / EN 61000-6-4)
- 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**
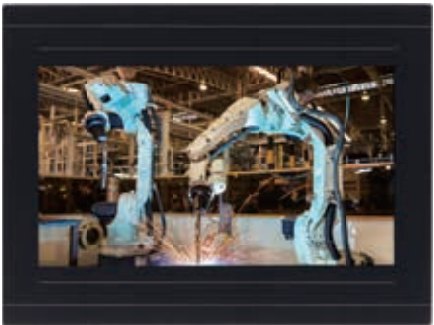
◀ IPPC1680P

15.6" wide-screen P-Cap touch, heavy-industry panel PC, Intel® Core™ i processor

- Default Intel® Core™ i5-6300U, 3.0G Hz
- Aluminum front zero bezel for harsh environment
- 2x DP, 2 x LAN, 2x USB 3.0, 2 x USB 2.0, 3x COM, 1x GPIO (4in/4out)
- 10 points P-Cap multi-touch with IP66 front protection
- 4in/4out GPIO for Open/Close Control
- Industrial EMC Certification (EN 61000-6-2/ EN 61000-6-4)
- 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, Intel® Celeron® processor

- On-board Intel® Celeron® J3455 1.5G Hz, with 4GB DDR3L
- Aluminum front zero bezel for harsh environment
- 2 x DP, 2 x LAN, 2 x USB 3.0, 1 x USB 2.0, 3 x COM
- 10 points P-Cap multi-touch with IP66 front protection
- Industrial EMC Certification (EN 61000-6-2/ EN 61000-6-4)
- Support 24V DC input (power adapter optional)
- Family include: 10.1" (IPPC1050P) / 15.6" (IPPC1650P) / 18.5" (IPPC1850P) / 21.5" (IPPC2150P)

P-Cap. | **WIDE** 16:9 | **m.2**
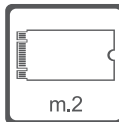
APPC1750T ▶

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

- On-board Intel® Celeron® J3455, 1.5G Hz with 4GB DDR3L
- 2 x DP up to 3 displays
- 2 x USB 3.0, 1 x USB 2.0, 2 x LAN, 3x COM
- 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**
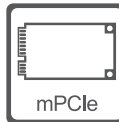
Transportation Computer

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

- 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)

Wide Voltage | **RS232/485** | **E-MARK**
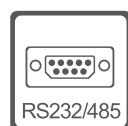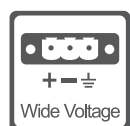
TPPC 2902 ►

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

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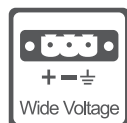
Marine Computer

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

- 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

Auto dimming | **Isolation** | **LAN x 4**
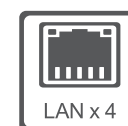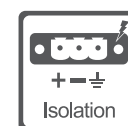
CE-CL ►

Marine certified, fanless box PC

- Support Intel® 8/9th 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

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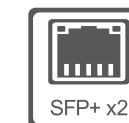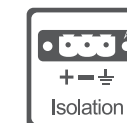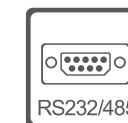
L1
Factory &
Motion Automation Product

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

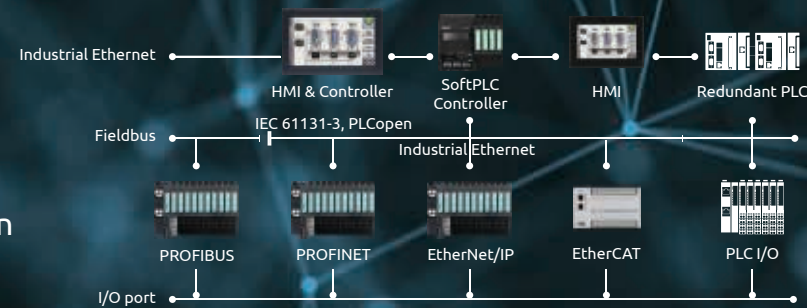### CODESYS is the leading manufacturer IEC 61131-3 automation software for engineering control systems

- 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)

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

SoftPLC   SoftMotion
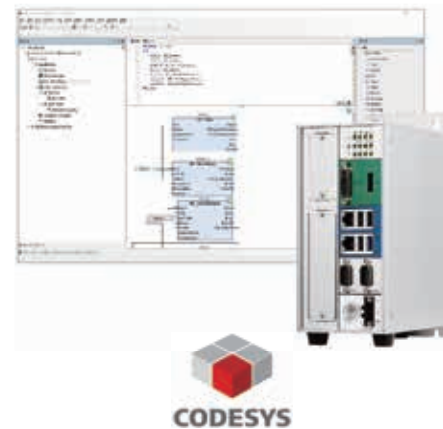
◀ NIFE200-P20 / M20

PC-based SoftPLC / SoftMotion controller

- On-board Intel® Celeron® J1900, 2.42 GHz 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)
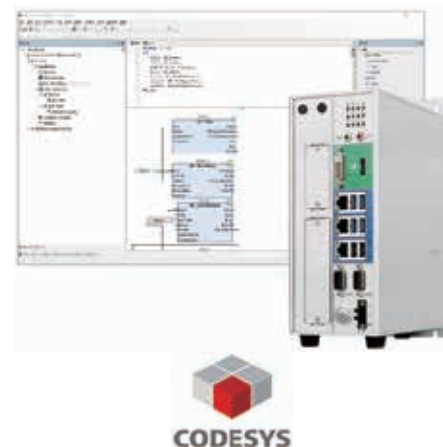
CODESYS

◀ NIFE300-P30 / M30

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

- Support Intel® 6/7th Gen. Core™ i socket-type CPU
- Front access 1 x 2.5" SSD/HDD tray and 1 x Fieldbus card socket
- CODESYS Runtime license and Windows 7/10 pre-installed
- P30 for SoftPLC, M30 for SoftMotion
- One non-Windows CPU core running CODESYS Runtime, standard PLCopen specifications
- Support 24V DC input
- Industrial EMC Certification (EN 61000-6-2 / EN 61000-6-4)
- Optional NVRAM module
- Optional HMI Runtime: JMobile PC Runtime

CODESYS

SoftPLC   SoftMotion

◀ 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, 1.5 GHz 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

CODESYS   J

◀ VIPA I/O

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

- Din-rail and slide plug-in design
- Power: 24V DC, 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 400k Hz
- Fast IO: 4, 2 μs...4ms, DC 24V
- SSI Encoder: Frequency 125k Hz...2M Hz
- DC Motor: 2-channel with feedback , 4 inputs/outputs DC 24V, PWM clock frequency 32k Hz

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
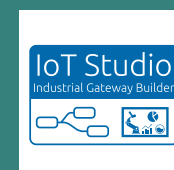
IoT Studio

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
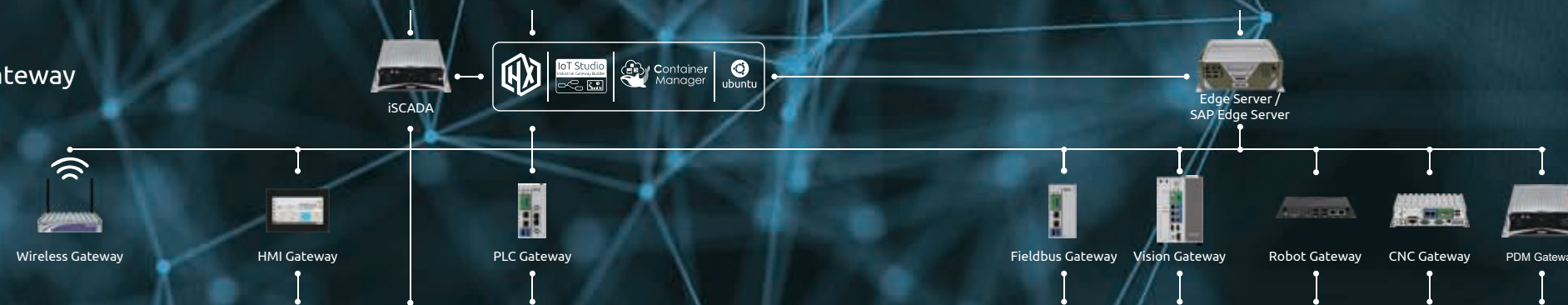
Integrated System
◎ Sensor Gateway
◎ PLC Gateway
◎ CNC Gateway
◎ Robot Gateway
◎ Vision Gateway

iSCADA

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
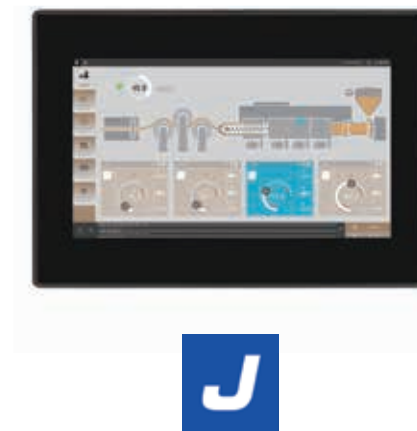
◂ HMI gateway: eLITE610

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 COM
- Web HMI, JMobile PC 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 HTML 5 and JavaScript

◂ 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

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

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

Microservice

E W R

Enterprise War Room

NexMASA Data Lake

Computer Integrated Manufacturing

SCADA

L3
Cloud-based
Edge Computing

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 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
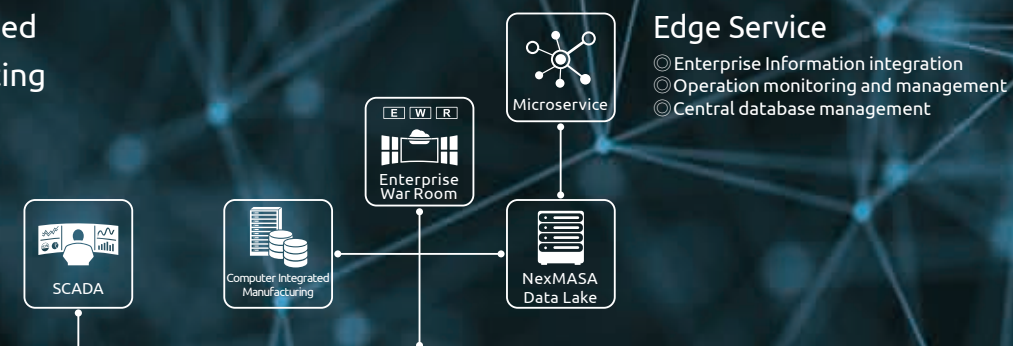
New

◀ NISE3900R-Edge

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

- Default Intel® 8th 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® 8th 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

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 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 totheir own preferences, such as graphics cards, GPU cards, etc., and have a more affordable choice when making artificial intelligence products.

New

◀ 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

New

◀ 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 30V DC

New

◀ AI Workstation: TT300 (DC input)

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

- Support Intel® 6/7/8/9th 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

New

◀ AI Workstation: AIGE304 (AC input)

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

- Support Intel® 8/9th 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

NEXAIOT

Industry 4.0 and Cloud Services

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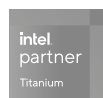**EXOR International S.p.A.**

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