

WebAccess

XNavi

WISE-EdgeLink

WISE-DataConnect



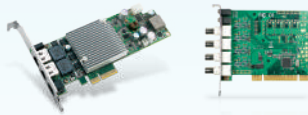
Innovative IIoT Edge to Cloud Technologies

Advanced Computer Vision

Industrial and AI Cameras
Quartz/ICAM-500



Frame Grabber and Video Capture Cards
PCIe/ DVP Series



EtherCAT

Motion Controllers
AMAX-3000/ 300 Series



EtherCAT Control & I/O Systems

Edge Controllers
AMAX-5500 Series



I/O Systems
AMAX-5000/ 4800 Series



Domain Platforms



Oil and Gas Applications
TPC/ FPM/ EKI/ ADAM/ UNO/ ULI Series



Railway Applications
ITA/ CPC/ EKI Series



Utility and Energy Applications
ECU-4000 Series/ ECU-579/ EKI Series



Serial / USB Communications



USB 2.0



USB 3.0



CAN bus

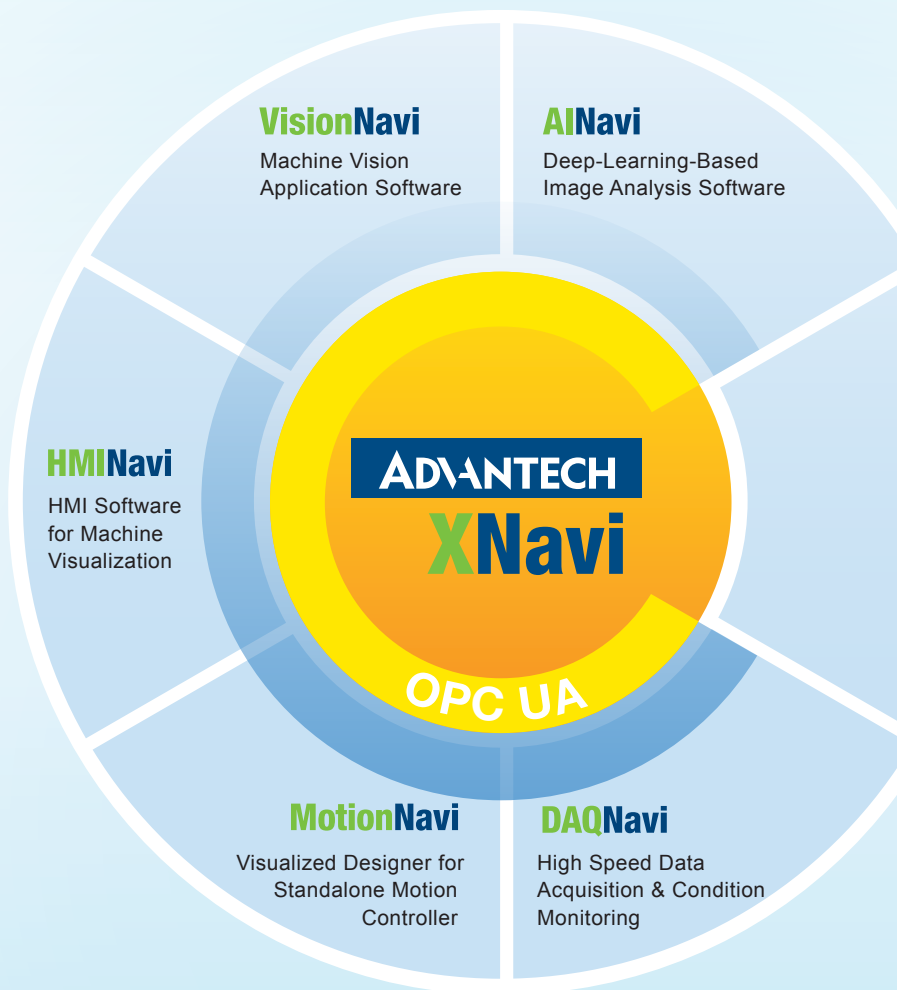
Serial and USB Converters/
Isolators/ USB Hubs/ Serial Repeaters
ULI Series and Serial Communication Cards



DAQ and Remote I/O



iDAQ Series/ USB-5800 Series/ PCI/PCIe Cards/ ADAM-4000/5000/6000 Series



Edge AI Systems

AI Video Systems/ AI Computing Systems
MIC-AI Series Based on NVIDIA Jetson

**Edge Computing Systems**

Intelligent Systems/ Automation Computers
HMI/ IPC/ MIC/ UNO/ WOP Series

**WebAccess/SCADA**

IIoT Application Software Platform

WISE-EdgeLink

Powerful Edge-to-Cloud
Middleware for Intelligent
Gateway Solutions

WISE-DataConnect

Industrial IIoT Device, Platform
& Data Management

- Device Management
- Data Management
- Application Management

**Wireless I/O and Sensors**

WISE-2000/ 4000 Series

**IIoT Gateways and RTUs**

EtherNet/IP™ OPC UA

Edge/ Communication/ Protocol/
Data Gateways

ADAM-3600/ 6700/ ECU/ EK1/
UNO/ WISE Series

**Connectivity and TSN**

lte 5G TSN

Cellular Routers/ Switches/ Wireless
Communication

ICR-2000/ 3000/ 4000 Series,
EKI-7000/ 8000 Series





지능형 공장 - iFactory

에너지 지속 가능성, 장비 효율성 및 운영 최적화 개선

어드벤처의 WISE-Factory는 제조 분야의 디지털 혁신을 가능하게 하는 솔루션입니다. WISE-PaaS AIoT 클라우드 플랫폼으로 구동되며 엣지-투-클라우드 소프트웨어 및 서비스를 제공하여 공장 운영을 더욱 효율적으로 할 수 있습니다.

WISE-Factory Solutions



WISE-FactoryEHS

Enabling smart manufacturing facilities for carbon neutral operations and a safer work place

- Whole facility monitoring for energy, utilities & safety
- Configurable KPI targets to meet carbon targets and reduce waste
- Calculate and analyze carbon footprint of your manufacturing operations



WISE-FactoryOEE&M

Real-time machine performance and maintenance support for operational excellence

- Real-time data acquisition from production machinery, with support for multiple industrial protocols
- Configurable machine performance metrics, including OEE, APQ etc.
- Easy to use dashboard for composing data visualizations and reports



WISE-FactoryMOM

Digital transformation of manufacturing operations for flexible capacity

- Schedule and dispatch production work
- Guide assembly and machine setup for production
- Track and record production outcomes, QC results
- Easy integration with ERP, PLM and existing IT systems

RTM (Real-time Monitoring)



iFactory/RTM

IFS-RTM-M770W5A

- MIC-770 V2/ i7/ 32G/ SSD128G- HDD1T/ Win10/ RTM with iMobile, Event Notice/ 4000 tags/5sec

IFS-RTM-U238L3A/U238L4A

- UNO-238/ i3/ i5/ 16G/ SSD128G/ Linux/ RTM with iMobile, Event Notice/ 1000 tags/5sec (U238L3A)/ 2000 tags/5sec (U238L4A)

IFS-RTM-UNO1372A

- UNO-1372G/ Celeron J1900/ 4G/ SSD32G/ Linux/ RTM with iMobile, Event Notice, EdgeLink/ 300 tags/5sec

WISE-FactoryEHS (Environment, Health & Safety) SRPs



FEMS (Factory Energy Management System)

IFS-RTM-M770W4FEMS/ IFS-RTM-M770W5FEMS

- MIC-770 V2/ i7/ 32G/ SSD128G- HDD1T/ Win10/ RTM with FEMS 20 license(W4FEMS)/ 50 licenses (W5FEMS)

IFS-RTM-SKY72WXFEM

- SKY-7221/ Xeon Silver 4210 10C x1/ 32G x2/ 4TB x5/ RTM with FEMS 100 licenses

WISE-FactoryOEE&M (OEE & Maintenance) SRPs



OEE (Overall Equipment Efficiency)

- IFS-RTM-M770W4OEE
- RTM with OEE 20 licenses
- IFS-RTM-M770W5OEE
- RTM with OEE 50 licenses
- IFS-RTM-SKY72WXOEE
- RTM with OEE 100 licenses

SPC (Statistical Process Control)

- IFS-RTM-M770W4SPC
- RTM with SPC 5 licenses
- IFS-RTM-M770W5SPC
- RTM with SPC 20 licenses
- IFS-RTM-SKY72WXSpc
- RTM with SPC 50 licenses

Maintenance

- IFS-RTM-M770W4MNT
- RTM with Maintenance 20 licenses
- IFS-RTM-M770W5MNT
- RTM with Maintenance 50 licenses
- IFS-RTM-SKY72WXMNT
- RTM with Maintenance 100 licenses

WISE-FactoryMOM (Manufacturing Operations Management) SRPs



Shop Floor

- IFS-RTM-M770W4SFC
- RTM with Shop Floor 20 licenses
- IFS-RTM-M770W5SFC
- RTM with Shop Floor 50 licenses
- IFS-RTM-SKY72WXSFC
- RTM with Shop Floor 100 licenses

Andon

- IFS-RTM-M770W4ADN
- RTM with Andon 20 licenses
- IFS-RTM-M770W5ADN
- RTM with Andon 50 licenses
- IFS-RTM-SKY72WXADN
- RTM with Andon 100 licenses

eManual

- IFS-RTM-M770W4EMN
- RTM with eManual 20 licenses
- IFS-RTM-M770W5EMN
- RTM with eManual 50 licenses
- IFS-RTM-SKY72WXEMN
- RTM with eManual 100 licenses



에너지 및 환경 솔루션

클라우드 지원 산업용 IoT 및 스마트 시티 애플리케이션 가속화

어드벤처의 E&E(에너지&환경) 솔루션은 에너지 사용과 환경에 대한 대중의 관심 증가를 해결합니다. 당사의 솔루션은 산업용 IoT를 감지, 제어 모니터링, 원격 통신 및 데이터 관리 프로세스에 적용합니다. 이러한 기술은 정보 통합 및 데이터 분석을 위한 두 가지 신뢰할 수 있는 도구인 WebAccess 및 WISE-PaaS와 결합됩니다. 이러한 소프트웨어를 사용하면 다양한 에너지 및 환경 산업 전반에 걸쳐 당사의 솔루션을 널리 활용할 수 있습니다.

Industrial IoT Cloud-based Management Services

WISE-DataConnect



WISE-DataConnect

IIoT Device Management Platform

Features

- Hierarchical organization twin object management
- Dashboard wizard
- Open API plugin for data exchange

Advantages:

- Easy interface with low learning curve
- Instant and dynamic domain logic scenario configuration
- Available for cloud or on-premises versions depending on scenario



Patrol Inspection

Service Patrol Dispatch Software

Features

- Scheduled patrol management
- Route planner and event task assignment
- Patrol statistics and reports

Advantages:

- Monitor real-time status updates in field site
- Simplifying complexity of dispatching process
- Tracking and reporting for strategic schedule management

Water Treatment Solutions

WISE-DataConnect



iWater-41A

Operation & Maintenance Command Center

- Hierarchical organization management
- Alarm/event management and patrol inspection
- Device/equipment operation and maintenance management

Solution Suite Package:

SKY-7221, WISE-PaaS/IoTSuite, WISE-DataConnect, Patrol Inspection

WebAccess/SCADA



iWater-42A

Biological Treatment A2O Solution

- Enables 100% web-based remote engineering, monitoring, and control
- Effective control for removal nitrogen and phosphorus
- Optimized aeration process

Solution Suite Package:

MIC-770, WebAccess 75 Points, A2O Process Package Software

WebAccess/SCADA



iWater-43A

Coagulation Sedimentation Solution

- Enables 100% web-based remote engineering, monitoring, and control
- Effective prediction of water quality and coagulant dosage
- Enhanced coagulation process and dosing control

Solution Suite Package:

MIC-770, WebAccess 75 Points, Coagulation Process Package Software

Environmental Facility Management

WISE-DataConnect



iEnv-46A

Edge Cloud Facility Management

- Factory HVAC monitoring
- Power consumption monitoring
- Motor facilities PHM

Solution Suite Package:

SKY-7221, WISE-PaaS/IoTSuite, WISE-DataConnect, Patrol Inspection

iEnv-49A

Patrol Inspection Management

- Offline mobile app inspection
- Dynamic inspection route management
- Open API for 3rd party event to trigger task

Solution Suite Package:

MIC-770, Patrol Inspection

Energy Solutions

WISE-DataConnect



iEnergy-47A

Solar Power Management

- Power generation information
- Power invertors and solar panel management
- Environmental monitoring

Solution Suite Package:

SKY-7221, WISE-PaaS/IoTSuite, WISE-DataConnect, Patrol Inspection (Optional)



유틸리티 및 에너지 솔루션

최대의 에너지 전환을 위한 전력 변화 솔루션

어드벤처의 견고하고 IEC 61850-3 호환 ECU 시리즈에는 자동화 컨트롤러, 게이트웨이 및 데이터 수집 모듈이 포함되어 있습니다. 이는 분산형 에너지 스테이션, 재생 가능 에너지원, 그리드 인프라와 제조에 대한 에너지 관리 및 모니터링 시스템의 안전성과 신뢰성을 보장합니다.

Edge Gateways



ECU-579

Server Grade IEC 61850-3 Certified Power Automation Computer

- 2nd Generation Intel® Xeon® Scalable Processors
- 12 x DIMM sockets support up to 768GB DDR4
- 2 x hot-swappable PSU
- 4 x 2.5" hot-swappable HDD/ SSD (RAID0, 1, 5, 10)
- 2 x PCIe x16, 1 x PCIe x8, 1 x PCIe x4 Gen. 3 Slots
- IPMI 2.0-compliant management



ECU-4784 Series

IEC 61850-3 Certified Power Automation Computer

- Intel® Xeon® E-2276ML Processor (2.00 GHz) up to 64G DDR4 ECC RAM
- Intel Xeon E3-1505L v5 Processor up to 32G DDR3L
- Intel® 6th Core™ Celeron, i3, i5, i7 Processor up to 16G DDR3L RAM
- 8 x Giga LAN, 2 x RS-232, 8 x RS-232/ 422/ 485 serial ports
- 3 x Display output/ 3 x SATA/ 2 x I/O expansion slots



ECU-4574

IEC 61850-3 Compliant Power Automation Computer

- Intel Atom® E3930 processor (1.3 GHz) up to 8G DDR3L RAM
- 10 x Giga LAN, 10 x Isolated RS-232/ 422/ 485 serial ports
- 8 x DI, 8 x DO - isolated, 1 x IIRIG-B

PCIe Cards



ECU-P1524SPE/ 1524PE

2-Port SFP Ethernet Card with HSR/ PRP Support

- 2 x SFP (1000 Mbps Base-X)
- 2 x SFP (100/ 1000 Mbps HSR/PRP selection via jumper)
- Wide operating temperature range (-25~70 °C)



ECU-P1628D/ 1618D

8-Port Isolated/ Non-Isolated RS-232/ 422/ 485 Module

- RS-232: 50~115.2 kbps (max.)
- RS-422/ 485: 50~921.6 kbps (max.)
- 2500 Vdc isolation (ECU-P1628D)
- Wide operating temperature range (-20~70 °C)



ECU-P1528RE/ 1528PE

8-port LAN Module

- 1528RE: 8 x RJ45 LAN gigabit module for ECU-4784
- 1528PE: 8 x SFP LAN gigabit module for ECU-4784

Communication Gateways



WISE-EdgeLink



ECU-1251

IEC-61850-3-Compliant Edge Communication Gateway with 2 x LAN, 4 x COM

- ARM Cortex® A8 800-MHz processor w/ 256 MB of DDR3L RAM
- 2 x 10/ 100 MB LAN, 4 x RS-232/ 485 serial ports
- 1 x mini-PCIe slot for wireless expansion
- Wide operating temperature range (-40~70 °C)



WISE-EdgeLink



ECU-1152

IEC-61850-3-Compliant Edge Communication Gateway with 2 x LAN, 6 x COM

- ARM Cortex® A8 800-MHz processor w/ 512 MB of DDR3L RAM
- 2 x 10/ 100 MB LAN, 6 x RS-232/ 485 serial ports
- 1 x mini-PCIe slot for wireless expansion
- Wide operating temperature range (-40~70 °C)



WISE-EdgeLink



ECU-4553

IEC-61850-3-Compliant Edge Communication Gateway with 4x LAN, 16x COM

- ARM Cortex® A8 800-MHz processor w/ 1 GB of DDR3L RAM
- 4 x 10/ 100MB LAN, 16 x RS-232/ 485 serial ports
- Wide operating temperature range (-40~70 °C)

지능형 교통 시스템

현대 교통 인프라를 위한 스마트 솔루션

어드밴텍은 전세계 지능형 도시 유지와 발전에 힘을 싣고자 시스템 개발에 전념하고 있습니다. 어드밴텍은 교통 부문에서 제품을 설계하고 개발하는데 필요한 상당한 전문 지식을 보유하고 있으며, 철도 자동 요금 징수, 노변 통제, 철도 차량 및 도시 교통 관리, 고속도로 관리, 교통 허브 관리 및 자율 차량과 같은 철도, 도로 애플리케이션을 위한 광범위한 제품을 제공합니다.



Intelligent Edge Platforms



ITA-3650/ ITA-3650G/ ITA-3650N

Intel® 6th & 7th Gen Fanless System for Traffic Management

- Intel® 6th & 7th Generation Desktop processor
- Supports onboard memory with SO-DIMM and NVRAM
- Supports 2 x GbE, 6 x USB, 6 x COM ports
- Supports 2 x 2.5" storage bay & 1 x mSATA
- Operating temperature -25 ~ 60 °C and 9-36V_{DC} power input
- Optional expansion for MXM GPU and networking

NEW

EN 50121-4



ITA-260

EN 50121-4 DIN-Rail Compact Fanless System

- Intel® 11th Generation Tiger Lake UP3 processor
- Supports up to 64G SO-DIMM memory
- Compliant with EN 50121-4 EMC standard for signaling applications
- Supports 6 x GbE, 4 x USB, 2 x COM ports
- Wide operating temperature range (-40 ~ 60 °C)
- Dual power input: 9-48V_{DC}



ITA-1711 / ITA-1711N

Intel® Celeron® J1900 Fanless Compact Systems

- 4 GB (up to 8G) of DDR3 onboard RAM
- Supports up to 4 x GbE, 6 x USB (includes 1 x USB 3.0) and 14 x COM
- Supports replaceable secondary display (VGA/DVI-D/LVDS)
- Supports dual outputs of full HD resolution video
- Supports 1 x easy-swap SATA slim/ CompactFlash module
- Supports 1 x 2.5" storage bay
- Operating temperature -25 ~ 60° and 9-36V_{DC} power input

Intelligent Railway Edge Platforms

EN 50155



ITA-5231/ 5231S/ 5231G/ 5231W

EN 50155 Fanless Systems

- Intel® Core™ i7/ i5/ Celeron® platform with QM170
- EN 50155 TX (-40 ~ 70 °C) and IEC 61373 body mounted class B standards
- Compliant with EMC standard EN 50121-3-2/ EN 50121-4
- Supports easy-swappable storage and I/O modules
- Supports anti-vibration HDD tray, MXM GPU modules, and connectivity modules in specific models

EN 50155



ITA-5831

EN 50155 Compact Fanless System

- Intel® Core™ i7/ i5/ Celeron® platform with QM170
- EN 50155 TX (-40 ~ 70 °C) and IEC 61373 body mounted Class B standards
- Compliant with EMC standard EN 50121-3-2/ EN 50121-4
- Ruggedized communication and power port connectors (M12)
- Supports easy-swappable storage and I/O modules
- Compliant with EN 45545-2 fire safety

In-Vehicle AI Platform

NEW



ITA-460/ ITA-460G

Intelligent In-Vehicle AI Platforms

- Intel® 8th/9th Gen Core™ i CPU (LGA1151) 8GB memory onboard, 1 x SO-DIMM, 1 x mSATA, 2 x 2.5" SSD
- Supports 2 x GbE, 2 x USB3.0/3.1, 2 x COM
- Supports 3 x mini PCIe expansion sockets
- All-around IP65 rating
- Wide operation temperature (-25 ~ 60 °C)
- Optional expansion for MXM GPU

3U CPCI Platforms



MIC-3 CPCI Serial Solution

AI/Machine Vision on Rolling Stock

- 3U or 4U height 19 inch on-rack, DC input
- High performance Xeon/Core i7/i5, 2 or 3 systems in chassis
- All I/Os on the front side, easy maintenance
- EMC/Safety: EN 50155, GB/T 24338.4, GB/T 25119
- PICMG CPCI-S.0 R2.0, PICMG 2.1 R2.0 compliant



MIC-3 CPCI Legacy Solution

Intelligent Wayside Signaling Control

- 3U or 4U height 19 inch on-rack, AC input
- Entry Atom CPU, fanless, -40 ~ 70 °C operating temperature
- Dual systems for redundancy
- Front LED, all I/Os on the rear side
- EMC/Safety: EN 50121-4, GB/T 24338.5
- PICMG2.0 R3.0, PICMG2.1 R2.0 compliant

Touch Panel PCs

EN 50155



ITA-8100/ 8100B/ 8120

EN 50155 Railway Driver Machine Interface

- 10.4" & 12.1" touch panel with 1024 x 768 resolution (1300 nits as optional for 10.4")
- 2 x GbE, 1 x USB 2.0, 2 x RS-422/485, 1 x Audio and 1 x DIO (M12)
- Expandable CANBus/ CANOpen/ MVB/ Wi-Fi/ LTE/ GPS
- Supports UIC 612-01 keypad and auto dimming by light sensor
- Wide voltage input range: 24/48/72/110 V_{DC} (±40%)
- Wide operating temperature range: -40 ~ 70 °C
- Compliant with EN 45545-2 fire safety



지능형 시스템 및 플랫폼

IoT를 위한 인프라

어드밴텍은 엣지 컴퓨팅, 클라우드 컴퓨팅 및 고성능 임베디드 시스템을 포함한 다양한 혁신 기술을 보유하고 있습니다. 당사의 지능형 시스템은 고성능 CPU 및 GPU 컴퓨팅, 다중 IO 및 통신 인터페이스, 소형 및 팬리스 설계, 보안, 에너지 절약, 확장 기능으로 설계된 다양한 폼 팩터를 가지고 있습니다. 이러한 지능형 시스템 및 GPU 카드는 공장 자동화, 전력 및 에너지, 지능형 운송은 물론, 스마트 머신 자동화, 머신 비전, 엣지 AI 애플리케이션과 같은 다양한 분야에 배포할 수 있습니다.

Modular Industrial Computers

NEW



MIC-770 V3

Compact Fanless System with 12th Gen Intel® Core™ i CPU Socket

- Intel® 12th Gen Core™ i CPU socket-type (LGA1700) with Intel® R680E/H610E chipset
- Wide operating temperature (-20 ~ 60 °C)
- VGA and HDMI output
- 2 x GigaLAN, 2 x USB 3.2 (Gen2) and 6 x USB 3.2 (Gen1)
- 2 x DDR5 ECC/Non-ECC SO-DIMM, up to 64GB

NEW



MIC-770 V2 + MIC-75G30

Desktop Compact Fanless System with GPU iModule

- Intel® 10th Gen Xeon®/Core™ i CPU socket-type (LGA1200) with Intel® W480E/H420E chipset
- Powerful GPU solution with dual NVIDIA 250W, 2.75-slot width, 334mm length GPU cards for new AI application
- Triple 24VDC power inputs with reliable power and OCP solution for up to 1400W maximum peak power currency

NEW



MIC-790

Compact 2U Fanless Edge Server

- Intel® Ice Lake-D Xeon D-2752 TER processor
- 6 x DDR4 ECC/Non-ECC SO-DIMM, up to 192GB for VM application
- 2 x 10GbE, 4 x GigaLAN
- 2 x NVMe M.2, 2x removable 2.5" SATA SSD
- IPMI supported
- 2 x PCIe x16 (reserved)

NEW



IPC-220/240/242

Compact Industrial Computer System with 12th Gen Intel® Core™ i CPU Socket

- Intel® 12th Gen Core™ i CPU socket-type (LGA1700) with Intel® Q670E/H610E chipset
- Up to 4 x expansion slots (PCIe/PCI)
- Dual GbE, 6 x USB3.2, 2 x USB 2.0, 1 x NVMe M.2, 2 x SATAIII, 2 x RS-232/422/485 serial ports
- Supports power output 5V/12V (max. 2A)
- Compatible MB: PCE-2033/2133

NEW



AIIS-3411U/ AIIS-3411P

All-in-One Compact Vision System, Intel® 10th Gen Core i CPU, 4-ch PoE or USB Camera Interface and Lighting Control

- Intel 10th Gen Core i CPU (LGA1200)
- AIIS-3411P: 4-ch GbE PoE
- AIIS-3411U: 4-ch USB 3.0
- Optional AIIS-1882 with 4-ch PWM Lighting output with 4 dedicated trigger
- 12 x DI and 16 x DO with 2500 V_{oc} isolation

NEW



IPC-320

Compact size Tower IPC with 12th Gen Intel® Core™ i CPU Socket (LGA 1700) and 250W ATX PSU

- Intel® 12th Gen Core i Desktop LGA 1700 CPU supported with H610E chipset
- Compact design fits in small cabinet or limited space
- Rich dual USB 3.2 and dual USB 2.0 port on both front and rear side
- Dual Independent Displays (HDMI/DP)
- 2 x Expansion slots (PCIeX16 and PCIeX4)
- Built-in 250W 12V and 5V output only power supply

Slot Single Board Computers (SBCs)

NEW



PCE-5133

12th Gen Intel® Core™ i PICMG 1.3 Full-size Single Board Computer

- Intel 12th Gen Core i9/i7/i5/i3 LGA1700 processor with R680E
- Dual LAN with Intel i225LM and i225V
- Up to 64GB of dual-channel (on-die ECC) DDR5 4800MHz
- PCIe Gen. 3.0, M.2 NVMe, USB 3.2, SATA 3.0 (RAID 0, 1, 5, 10)
- Triple displays: 1 x VGA, 2 x DVI-DP/HDMI



PCA-6029

6th/7th Gen Intel® Core™ i PICMG 1.0 Full-size Single Board Computer

- Intel® 6th/7th Gen Core™ i7/i5/i3 LGA1151 processor with H110 chipset
- Up to 64 GB of dual-channel (non-ECC) DDR4 2133/2400 MHz
- USB 3.0, SATA 3.0
- Dual displays: 1 x VGA, 1 x DP/DVI-D (optional)



PCE-4132/ PCE-3032

10th Gen Intel® Core™ i PICMG 1.3 Half-size Single Board Computer

- Intel® 10th Gen Core™ i9/i7/i5/i3 LGA1200 processor with W480E/H420E chipset
- Up to 64 GB of dual-channel (non-ECC) DDR4 2666/2933 MHz
- PCIe Gen 3, M.2 M-key, USB 3.2, SATA 3.0 (RAID 0, 1, 5, 10), dual GbEs
- Up to triple displays: 1 x VGA, 1 x DVI-D (optional), 1 x DP (optional)

Industrial Motherboards & Computers

NEW



AIMB-788

12th Gen Intel® Core™ i ATX Motherboard

- Intel® 12th Gen Core™ i9/i7/i5/i3 LGA1700 processor with Q670E chipset
- Up to 128 GB of dual-channel (non-ECC) DDR4 3200 MHz
- 1 x PCIe x16 Gen 4, 4 x PCIe x4 Gen 3, 2 x PCI slots, M.2 M-key, USB 3.2, SATA 3.0 (RAID 0, 1, 5, 10)
- Triple displays: 1 x DP, 1 x HDMI, 1 x VGA

NEW



AIMB-708

12th Gen Intel® Core™ i ATX Motherboard

- Intel® 12th Gen Core™ i9/i7/i5/i3 LGA1700 processor with H610E chipset
- Up to 64 GB of dual-channel (non-ECC) DDR4 3200 MHz
- 1 x PCIe x16 Gen 4, 2 x PCIe x4 Gen 3, 4 x PCI slots, M.2 M-key, USB 3.2, SATA 3.0
- Dual displays: 1 x HDMI, 1 x VGA



ACP-2020G

2U Rackmount Chassis for GPU Applications

- Supports ATX/uATX motherboards
- Tool-less card cage for GPU card
- Thermal design for 350W GPU card
- Built in 850W 80 Plus Platinum single power supply

Industrial MXM GPU Cards

NEW



SKY-MXM-A2000-4SDA

MXM 3.1 Type A NVIDIA® Quadro® Embedded A2000 with DP 1.4a

- MXM 3.1 Type A form factor
- 2560 CUDA cores
- 20 RT Cores
- 80 Tensor Cores
- 8.25 TFLOPS
- 4 x DP 1.4a
- 4GB GDDR6 memory
- 224GB/s maximum memory bandwidth



SKY-MXM-T1000-4SDB

MXM 3.1 Type A NVIDIA® Quadro® Embedded T1000 with DP 1.4a

- MXM 3.1 Type A form factor
- 896 CUDA cores
- 2.7 TFLOPS
- 4 x DP 1.4a
- 4GB GDDR6 memory
- 192GB/s maximum memory bandwidth

NEW



SKY-MXM-R3000-6SDA

MXM 3.1 Type B NVIDIA® Quadro® Embedded RTX3000 with DP 1.4a

- MXM 3.1 Type B form factor
- 1920 CUDA cores
- 30 RT Cores
- 240 Tensor Cores
- 5.3 TFLOPS
- 4 x DP 1.4a
- 6GB GDDR6 memory
- 336GB/s maximum memory bandwidth

Industrial Quadro & Tesla GPU Cards (Bundle Sale)



SKY-QUAD-RTXA5000B

NVIDIA Quadro RTX A5000 PCIe 24GB DSFH w/ ATX bracket BULK

- PCIe 4.0 x 16, Dual slot, Full height
- 8192 CUDA cores
- 64 RT Cores
- 256 Tensor Cores
- 27.8 TFLOPS
- 4 x DP 1.4
- 24GB GDDR6 memory
- 768GB/s maximum memory bandwidth

NEW



SKY-QUAD-T1000-8-B

NVIDIA Quadro RTX T1000 PCIe 8GB SSLP w/ ATX bracket BULK

- PCIe 3.0 x 16, Single slot, Low Profile
- 896 CUDA cores
- 2.5 TFLOPS
- 4 x DP 1.4
- 8GB GDDR6 memory
- 160GB/s maximum memory bandwidth



SKY-TESL-A100-80P

NVIDIA Tesla A100 80GB PCIe DSFH w/ ATX BKT

- PCIe 4.0 x 16, Dual slot, Full height
- 3 x NVLINK Bridges
- 7 x Multi-Instance GPU
- 80GB HBM2e memory
- 1935GB/s maximum memory bandwidth



산업용 임베디드 보드

유연한 통합과 발빠른 개발이 가능한 IoT 솔루션

어드벤처 임베디드 싱글보드 컴퓨터는 2.5 인치 Pico-ITX, 3.5 인치 SBC, PC/104, EBX 및 5.25" SBC, PCM 및 MI/O 확장 폼 팩터를 포함합니다. 임베디드 싱글보드 컴퓨터는 산업용 애플리케이션을 위한 견고한 솔루션, 높은 유연성, 소프트웨어 통합 및 손쉬운 확장 기능을 제공합니다.

Mini-ITX Industrial Motherboard

NEW



AIMB-218

Intel® Pentium/Celeron Quad Core/Dual Core Mini-ITX

- Intel Pentium/Celeron processor N6210/N6211/J6412/J6413/J6426/x6413E
- Two 260-pin SO-DIMM up to 32 GB DDR4 3200 MHz SDRAM



AIMB-277

10th Gen Intel® Core™ i9/i7/i5/i3 LGA1200 Mini-ITX

- Supports 10th Generation Intel® Core™ i processor (LGA1200) with Intel Q470E chipset
- Two 260-pin SO-DIMM up to 64GB DDR4 2933 MHz SDRAM
- Supports triple display of HDMI 2.0a/DP++/VGA/LVDS

NEW



AIMB-288

12th Gen Intel® Core™ Thin Mini-ITX Extended

- 12th Gen Intel® Core™ Desktop Processors
- Integrated MXM GPU
- Slim, all-in-one design

UTX Industrial Motherboard



AIMB-U233

Intel 8th Gen U Series CORE i3/i5/i7 CPU

- Intel® Whiskey Lake Core™ i3-8145UE / i5-8365UE / i7-8665UE
- Supports One DDR4-2400 SO-DIMM
- Supports 1 x eDP (LVDS co-lay), 2 x HDMI, 3 Independent Displays, 2 x LAN, 2 x USB3.1 Gen2 Type-A Ports, 4 COM Ports (RS-232/422/485, selected via BIOS)
- Support SUSI, WISE-DeviceOn and Edge AI Suite



AIMB-U217

Intel® Atom™ E3950/E3940 QC 1.6 GHz UTX Industrial Motherboard

- Intel® Atom™ Qual core E3950/E3940 1.6 GHz processor
- 204-pin SO-DIMM up to 8 GB DDR3L 1866 MHz SDRAM
- Supports HDMI/DP++, eDP (co-lay dual-channel 48-bit LVDS), CANBus, GPIO 16bit, TPM
- Wide DC in 12V to 24V



AIMB-U117

Intel® Atom™ E3950/E3930 DC 1.6/1.3 GHz UTX Industrial Motherboard

- Intel® Atom™ Qual/ Dual core E3950/E3930 1.6/ 1.3 GHz processor
- 204-pin SO-DIMM up to 8 GB DDR3L 1866 MHz SDRAM
- HDMI/DP++, eDP (co-lay dual-channel 48-bit LVDS)
- Supports 1 F/S Mini-PCIe expansion slot, M.2 E-Key slot, 2 COMs (RS-232, RS-422 or 485), 4 USB 3.0, and dual LAN

Micro-ATX Industrial Motherboard



AIMB-506

Intel 8th 9th Gen Intel® Core™ i7/i5/i3 LGA1151 uATX

- Supports Intel® 8th/9th Gen Core i7/i5/i3 processor with H310 chipset
- Two DIMM sockets support up to 64 GB DDR4 2666 MHz SDRAM
- Supports up to 14 COM, 8 USB 3.0, 12 USB 2.0, TPM 1.2/2.0 (optional)

NEW



AIMB-587

Intel® Xeon® 10th Gen Core™ i9/i7/i5/i3 LGA1200, MicroATX

- Supports Intel® 10th Gen Xeon/ Core™ i9/i7/i5/i3 processor with Q470E/ W480E/ H420E chipset
- Four U-DIMM sockets support up to 128GB DDR4 2666/2933 MHz SDRAM
- Supports PCIe Gen3, Dual 10 GbE LAN, Dual GbE LAN, M.2(M-key) and up to 8 x

NEW



AIMB-588

Intel® Atom™ SoC E3825/ J1900 Pico-ITX SBC

- Embedded Intel® Atom™ SoC E3825 & Celeron J1900 up to Quad-Core processor design, DDR3L 1333MHz support up to 8GB
- Intel Gen 7 DirectX®11.1 support, dual independent display by 24-bit LVDS + VGA or 24-bit LVDS + HDMI
- Flexible design using integrated multiple I/O
- Rich I/O interface with 2 COM, 1 SATA, USB3.0, PCIe Mini Card and mSATA

MIO Extension 2.5" Pico-ITX



MIO-2263

Intel® Atom™ SoC E3825/ J1900 Pico-ITX SBC

- Embedded Intel® Atom™ SoC E3825 & Celeron J1900 up to Quad-Core processor design, DDR3L 1333MHz support up to 8GB
- Intel Gen 7 DirectX®11.1 support, dual independent display by 24-bit LVDS + VGA or 24-bit LVDS + HDMI
- Flexible design using integrated multiple I/O
- Rich I/O interface with 2 COM, 1 SATA, USB3.0, PCIe Mini Card and mSATA

NEW



MIO-2363

Intel Atom x6000E Series PICO-ITX SBC

- Intel Atom x6000E Series, Onboard LPDDR4x up to 8GB and EMMC up to 128GB
- Support 12-24V wide voltage range -40~85°C operating temperature
- 2x GbE LAN, 2x USB3.2, 2x RS-232/422/485, I2C
- M.2 E-Key, M.2 B-Key for SATA storage and option to support RS-232 module

NEW



MIO-2375

11th Gen. Intel® Core U-series i7/i5/i3/Celeron Pico-ITX SBC

- Intel® Tiger Lake-UP3 (10nm++) Series, On-board LPDDR4x-4266 up to 32G with IB ECC
- IDual independent display: eDP/MIPI-DSI, DP up to 8K
- Rich I/O interface with GbE x 2, USB 3.2, COM Port, DIO SMBus, TPM2.0
- Flexible expansion to IoT connectivity: M.2 E-Key, M.2 B-Key/ M-Key NVMe x2

MIO Extension 3.5" SBCs

NEW



MIO-5375

11th Gen. Intel® Core U-series i7/i5/i3/Celeron 3.5" SBC w/ MIOe

- 11th Gen. Intel® Core™ Processor with Quad/Dual Cores, TDP 15W/ 28W
- Dual Channel DDR4-3200 up to 64GB
- 4 simultaneous displays: LVDS/ eDP*, HDMI, DP, USB Type-C
- 2 GbE, 4 USB3.1, CAN Bus, DC-in 12-24V



MIO-5377

7th Gen. Intel® Core i7/i5/i3 Celeron with QM170

- CPU Quad/Dual Core, dual channel DDR4 up to 32GB
- 3 independent displays LVDS + 2xHDMI, 2xGbE, 4xUSB3.0
- M.2 E-Key, mSATA, MIOe, opt. NVMe x2



MIO-5271

4th Gen Intel® Core™ U-series

- 4th Gen Intel® Core™ U-series (i5/Celeron®), 1 x DDR3L-1600/ 1333 SO-DIMM support up to 8 GB, 3 independent display
- Optimized thermal design with fanless solution
- Flexible design using integrated multiple I/O

Computer-On-Module



COM Express Basic

COM Express Basic/High-end processor in a board size of 125mm x 95mm

- COM Express Basic is equipped with the latest processor. It can provide not only high-speed interfaces like HDMI/DisplayPort, PCI Express, SATA and USB 3.0 for volume data transportation, but also LVDS, PCI and IDE for legacy applications. COM Express Basic Module is equipped with high-end processor in a board size of 125mm x 95mm.



SOM-6000 Series

COM Express Compact/Intel Core i ULT 9th Generation, Intel Atom processor in a compact module

- COM-Express Compact is compact module that includes Intel Core i ULT 9th Generation, Intel Atom processor, which the best solution for mobile applications.

NEW



SOM-2532/2569

Qseven/Low power processors in a ultra-small form factor

- In ultra-small form factor and Intel Atom, Qseven can deal with low power processors with on-board memory and storage. Qseven module transfers all the major signals and interface to the carrier board via golden fingers at the PCB edge.



SOM-7000 Series

COM Express Mini/Entry processor in a board size of 84mm x 55mm

- COM Express Mini Module is equipped with Entry processor in a board size of 84mm x 55mm and Intel Atom. It supports memory down and onboard storage for ruggedized applications.

NEW



SOM-3569/3567

SMARC/Small form factor in two module size (82x50mm/82x80mm)

- SMARC is a small form factor that connects to carrier board by golden finger. It supports low power and wide range computing performance in two module size (82x50mm/82x80mm); also comes with onboard memory & storage. Advantech SMARC is integrated dual LAN and wireless technology.



Development Board

- Advantech Development boards provide a schematic software & reference design to reduce efforts needed in development stage. Advantech Development Board can be used to test carrier board problems and support COM series, RTX, SMARC, Qseven, and ETX / XTX form factors.



산업용 플래시, 메모리 & 무선모듈

IoT시장을 선도하는 다양한 SSD & 메모리 솔루션

어드벤처 산업용 플래시, 메모리 솔루션은 폭넓은 온도 범위와 다양한 사이즈의 제품들로 사용자의 환경에 맞게 제품 선택이 가능합니다. SQFlash는 우수한 호환성, 성능 및 보안을 갖춘 매우 안정적인 SSD 스토리지를 포함하고, SQRAM은 산업 환경을 위한 내구성과 신뢰성이 뛰어난 DRAM 메모리 모듈을 제공합니다. 또한 어드벤처는 안정적인 통신 구축을 위한 WiFi와 블루투스 콤보, WiFi 6 기술을 지원합니다.

SQFlash SATA SSD



SQFlash: 830 series 2.5" SSD - MLC SQF-S25M8(128G/256G)

- SQFlash 830 series industrial 2.5" SATA SSD
- 128G: -40~85°C, 1T: 0~70°C



SQFlash: 640 series 2.5" SSD - MLC SQF-S25M4(16GB/32GB)

- SQFlash 2.5" SSD 640, SATA Gen. 3 (6.0Gbps)
- 16GB: 0~70°C, 32GB: -40~85°C
- 650 Series support 128GB/256GB/512GB



SQF-CM8 920 series - Enterprise SQF-CM8 920

- SQFlash 920 M.2 2280 PCIe/NVMe SSD
- 0~70°C wide range operating temperature

DDR5/DDR4 DRAM Modules

NEW



Embedded DRAM: UDIMM DDR5 SQR-UD5N16G4K8MNAB(16G/32G)

- 288pin UDIMM DDR5 4800 16GB 1.1v 2Gx8(0-85)
- 0~85°C wide range operating temperature

NEW



Embedded DRAM: SODIMM DDR5 SQR-SD5N16G4K8MNAB(16G/32G)

- 262pin SODIMM DDR5 4800 16GB 1.1v 2Gx8(0-85)
- -20~85°C wide range operating temperature



Embedded DRAM: SODIMM DDR4 SQR-SD4N4G2K6SNPCB(4G/8G/16G)

- 260-Pin SODIMM DDR4 2666 MHz/3200 MHz(0-85)
- 0~85°C wide range operating temperature

DDR3 DRAM Modules



SQRAM: ECC DDR3L 1600(0~85) SQR-SD3N2G1K6SEFFB(2G/4G/8G)

- 204pin SODIMM ECC DDR3L 1600 2GB 1.35v/1.5v 256x8 (0-85)
- 0~85°C wide range operating temperature



SQRAM: UDIMM DDR3L 1600(0~85) SQR-UD3N2G1K6SEFFB(2G/4G/8G)

- 240pin UDIMM ECC DDR3L 1600 2GB 1.35v/1.5v 256x8 (0-85)
- 0~85°C wide range operating temperature



SQRAM: SODIMM DDR3L 1600(-40~85) SQR-SD3I-2G1K6SNLB(2G/4G/8G)

- 204pin SODIMM DDR3L 1600 2GB 1.35v/1.5v 256x8 (-40-85)
- -40~85°C wide range operating temperature

WiFi and Bluetooth Combo



EWM-W193

IEEE 802.11ac + Bluetooth 5.0 Half Mini-PCIe module

- IEEE 802.11ac/a/b/g/n (2.4GHz & 5GHz) and Bluetooth 5.0
- Supports MU-MIMO (2T2R)
- Supports operation in wide temperatures ranges 0 ~ 70 °C (0 ~ 158 °F)
- Supports Windows and Linux OS
- Half-size Mini-PCIe form factor module (30 x 26.8 x 2.5 mm/1.18 x 1.05 x .09 in)
- Wi-Fi / BT interface : PCIe / USB

Wi-Fi 6

NEW



AIW-166K1/K2

Wi-Fi 6E Wireless Kit

- Intel 6E AX210
- M.2 2230 form factor
- Wide operating temperature support: 0 ~ 70°C/ 32 ~ 158°F, -40~85°C/ -40~185°F
- O/S compatibility: Windows, Linux, Chrome and Ubuntu

임베디드 자동화 컴퓨터

Edge IoT 애플리케이션을 위한 원활한 연결 및 전송

어드벤처의 UNO 시리즈 임베디드 자동화 박스 PC는 엣지 컴퓨팅에 이상적이며 IT와 OT간의 격차를 해소합니다. UNO 시리즈는 다양한 크기와 마운팅으로 유연한 IoT 게이트웨이 역할을 합니다. 또한 무선 통신, 산업용 I/O 및 주변 장치, 산업용 필드버스를 포함한 다양한 애플리케이션을 기반으로 여러가지 I/O 요구사항을 구성할 수 있는 유연한 어드벤처 iDoor 기술을 지원합니다.



Machine Control



Data Analytics



Protocol Conversion



Visualization



WISE-EdgeLink
WISE-DeviceOn



M2I Control Edge

NEW



UNO-127

Intel Atom® X Extremely Small Edge Computing DIN-Rail Controller

- Intel Atom® x6413E processor (1.5 GHz) with 4GB DDR4 onboard memory
- Onboard 64G eMMC 5.1
- 2 x LAN, 2 x USB, 1 x HDMI, 1 x mPCIe, 2 x LED Indicators (Power/Run)
- Modular design for optional 4 x iso, COM, 1 x LAN, 1 x M.2 B Key expansion
- Onboard TPM 2.0, iBEC supported

NEW



UNO-137

Intel Atom® E3940 Small-Size Integrated DIN-Rail Controller

- Industrial-grade Intel Atom® E3940 processor (1.6 GHz) with 8GB DDR3L memory
- 2 x LAN, 2 x COM, 4 x USB, 2x DP (support DP++), 1 x mPCIe, 1 x M.2 B key for 2242 SATA or 3042/ 3052 cellular module
- Modular design for optional 1 x iDoor expansion
- Wide operating temperature range (-40~70 °C / -40~158 °F)
- Port isolation for 8 x DI, 8 x DO, 2 x COM

NEW



UNO-148

Intel® Core™ i Real-Time DIN-Rail Controller

- Intel® 11th Gen Core™ i7/ i5/ i3 processor with 8GB DDR4 memory
- 3 x LAN, 4 x USB, 2 x DP (support DP++), Port isolation for 8 x DI, 8 x DO, 4 x COM
- High internal expandability: 1 x mPCIe, 1 x M.2 B key for 2242 SATA or 3042/ 3052 cellular module, 1 x M.2 M Key for 2280 NVMe, 1 x M.2 E Key for wireless module
- Built-in Intel® Ethernet Controller I225 for TSN capabilities
- Modular design for 2 optional extension kits provided: 1x iDoor + 1 x 2.5" SATA expansion, 1 x PCIe x4 expansion

UNO-348

Intel® Core™ i High Performance Expandable Controller

- Intel® Core™ 10th Gen i5/ i9 processor with 8G/16G DDR4 memory
- 3 x GbE, 1 x RS-232, 2 x RS-232/ 422/ 485, 4 x USB 3.2, 2 x USB 2.0, 1 x DP++, 1 x HDMI, Mic-in, Line-out
- Flexible expansion with up to 3 x PCIe/PCI slots, 1 x M.2 B key, 1 x mPCIe and 2 x 2.5" SSD
- Rugged and fanless design suits for harsh embedded environment
- Out-of-Band (OOB) manageability with iBMC
- Built-in TPM 2.0 for ensuring the integrity of the platform

Domain Specific Edge



UNO-420

PoE Powered Device Sensing Gateway

- Intel Atom® E3815 processor with 2GB DDR3L onboard memory
- 2 x GbE (1 x PoE-IN), 1 x USB 3.0, 1 x HDMI, 1 x RS-485, 2 x RS-232/ 422/ 485, and
- 8 x programmable GPIO
- 32GB eMMC storage onboard
- ESRP package: supports WISE-EdgeLink



UNO-430

Intel Atom® Explosion-Protected IP66 Waterproof Gateway

- Intel Atom® E3950 quad-core processor with 8G DDR3L memory
- 2 x GbE, 2 x RS-422/ 485 (isolated), 1 x RS-232 (console), M.2 2242 key B, TPM 2.0
- Water-proof and sustain -40 ~ 70 °C for outdoor environments
- Easy maintenance and installation with front door and cable gland design
- C1D2, ATEX, IECEx certified



UNO-410

Intel Atom® E3940 Explosion-Protected Gateway

- Intel Atom® E3940 processor (1.6 GHz) with 8GB DDR3L memory
- 2 x GbE, 3 x USB 3.2, 1 x USB 2.0, 2 x RS-232/ 422/ 485, 8 x DI, 8 x DO, 2 x DP1.2
- Wide operating temperature range (-40~70 °C / -40~158 °F)
- Onboard TPM 2.0 provides hardware-based security
- C1D2, ATEX, IECEx certified

IoT Gateway Edge



UNO-238

Intel® Core™ i Compact IoT Edge Computer

- 8th Gen Intel® Core™ i processor
- 2 x GbE, 4 x USB 3.2, 2 x RS-232/422/485, 1 x HDMI, 1 x DP, 1 x GPIO (8 bit)
- Can be expanded to facilitate wireless communication
- Threaded DC jack for reliable power supply
- Optimized mechanical design for easy RAM swapping



UNO-220

Raspberry Pi Industrial Kit

- Tiny size for RPi-based IoT solution
- Industrial grade I/O board for the Raspberry Pi
- Battery-backed RTC chip for keeping the track of time
- The inclusion of OS allows the RPi to identify UNO-220 and automatically configure the GPIOs and drivers for the board
- Integrated with PoE function allows users to power Raspberry Pi 4 via an Ethernet cable (UNO-220-P4N2AE)



UNO-247

Intel® Celeron® J3455E Edge Gateway

- Intel® Celeron® J3455E processor
- 2 x GbE, 2 x USB 3.0, 2 x USB 2.0, 4 x RS-232, 2 x RS-485, 1 x HDMI, 1 x VGA
- Threaded DC Jack design for more steady power supply
- ESRP package: supports WISE-DeviceOn



WISE-710

ARM Cortex™-A9 Industrial Gateway

- NXP® ARM® Cortex™-A9 i.MX6 dual-core 1.0 GHz processor
- 2 x GbE, 3 x COM, 1 x Micro USB, and 1 x Micro SD slot
- Optional mPCIe expansion slot for wireless modules
- Operating system Linux Ubuntu 16.04 support
- ESRP package: supports WISE-Edgelink

Industrial Computing Edge

NEW



UNO-2271G V2

Pocket-Size Modular Box PCs

- Intel® Celeron® N6210 dual-core processor with 4GB of DDR4 RAM
- 2 x GbE, 2 x USB 3.2 Gen1, 1 x HDMI1.4
- 1 x mSATA slot shared with mPCIe slot
- 1 x Full-size mPCIe slot (SATA/PCIe/USB2.0 signal)
- Onboard 32G eMMC (Up to 256G)
- Expansion kit: UNO-2271G-EKCE, supports up to 1 x iDoor; UNO-2271G-RS2EA, supports 2 x COM, 1 x M.2 B key, 1 x M.2 E key; UNO-2271G-RP1EA, supports 2 x COM (RS-232/422/485), terminal block, 1 x PoE+ (802.3at)*, 1 x M.2 B key

*Note: Due to max 25.5W supply via PoE, USB ports should be limited to connect with USB 2.0 devices only.

NEW



UNO-2372G V2

Small-Size Modular Box PCs

- Intel® Celeron® J6412 quad-core processor with 8GB of DDR4 RAM
- 2 x GbE, 3 x USB 3.2 Gen 2, 1 x USB 2.0, 1 x HDMI1.4, 1 x DP1.4, 4 x RS-232/ 422/ 485
- 1 x M.2 B key slot (USB Signal for 3042/ 3052 LTE/ 5G Module)
- 1 x 2.5" SSD SATA drive bay (support SSD/ HDD height up to 9.5mm)
- 1 x M.2 M key (PCIe x 2/ SATA for storage)
- 1 x mPCIe slot (PCIe, USB 2.0 Signal)
- Expansion kit: UNO-2372G-EKCE, support up to 1 x iDoor

NEW



UNO-2484G V2

Regular-Size High-Performance Modular Box PCs

- Intel® Core™ 6305E dual-core/ i3-1115G4E dual-core/ i5-1145G7E quad-core/ i7-1185G7E quad-core processor with 8GB of DDR4 RAM
- 4 x GbE, 3 x USB 3.2 Gen 2, 1 x USB 2.0, 1 x HDMI1.4, 1 x DP1.4, 4 x RS-232/ 422/ 485
- 1 x M.2 B key slot (USB Signal for 3042/ 3052 LTE/ 5G Module, SATA Signal for storage)
- 1 x 2.5" SSD SATA drive bay (support SSD/ HDD height up to 9.5mm)
- 1 x M.2 M key (PCIe x 4)
- 2 x mPCIe slot (PCIe, USB 2.0 Signal)
- Expansion kit: UNO-2484G-EKCE, support up to 4 x iDoor

iDoor Modules

Industrial Fieldbus
PCM-26 Series

Industrial Fieldbus iDoor Modules Support Common Automation Protocols

- CANOpen
- EtherCAT
- POWERLINK
- PROFIBUS
- EtherNet/IP
- PROFINET
- Sercos 3

Wireless Communication
PCM-24S Series

Wireless Communication iDoor Modules Enhance Connectivity for Industrial IoT

- Wi-Fi/ Bluetooth
- LTE/ GPS

Industrial I/O and Peripherals
PCM-23/ 24/ 27/ 29 Series

Industrial I/O and Peripheral Modules Enable Flexible I/O Expansion

- RS232/ 422/ 485
- MRAM
- USB 3.0
- Digital I/O
- CFast slot
- PoE
- GigaLAN
- USB dongle
- TPM



임베디드 시스템

스마트 시티, 팩토리 구현에 적합한 임베디드 솔루션

Mini-ITX 마더 보드 및 3.5" 싱글 보드 컴퓨터용으로 설계된 임베디드 시스템으로 유연한 I/O 인터페이스 옵션을 통해 설계 효율성을 극대화하고 장비를 최적화시킬 수 있습니다. 어드밴텍은 X86과 Arm 기반 플랫폼의 2.5 및 3.5인치의 EPC 시리즈를 제공합니다. 임베디드 IoT 어플리케이션을 위해 빠르게 구성 가능한 모듈형 설계 및 팬리스 PC인 ARK 시리즈도 제공합니다. 엣지 비주얼라이제이션 솔루션인 DS 시리즈는 콘텐츠 및 디바이스 관리와 보안 소프트웨어가 함께 제공되며 Wi-Fi, LTE 모듈과 연결가능하도록 설계되었습니다. 클라우드 기술의 발전에 따라 어드밴텍은 데이터 수집 및 원격 모니터링을 위한 엣지투클라우드 솔루션도 지원합니다.

Embedded PC - EPC

NEW



EPC-P3066

Intel® 8th/9th Generation Core i 2U Fan System

- Intel® 8th/ 9th Gen Core™ i processor (LGA1151) with Intel C246/H310
- 3 x GigaLAN and upto 8 x USB3.0, 2 x RS-232/422/485 and 4 x RS232 serial ports, 16 bit GPIO
- 4 x SATA (max), 1 x M.2 E key, 1 x M.2 B/M key, 2 x F/S mSATA
- 12~24V DC input power range



EPC-C301

Intel® 8th. Gen. Core i7/i5 Processor Fanless Embedded System

- Intel 8th. Gen. Core Processor with Quad/Dual Cores (i7/i5), TDP 15W
- Semi-Industry Fanless slim system, Din Rail or Wall mount design
- HDMI + DP* (Support vai MIO) dual display
- 4 GbE, 4 USB3.1, 4 USB 2.0, CAN Bus, M.2 M-Key 2280 supports NVMe, M.2 E-key 2230, M.2 B-key, 1 full size of mini PCIe, DC-in 12V



EPC-T4286

THIN 1U Compact size with Intel 8th/9th Gen. system

- THIN Compact design with 44.2mm in height
- Thin barebone with multi-IO ports is suitable for variety of application environments with DC-in design
- One 2.5" shock-resistant drive bay
- Support Wall/VESA/Din Rail Mounting



EPC-B 2000/5000 Series

Scalable embedded PC

- EPC-B Series are scalable embedded PC with PCIe card and intel processor for Mini-ITX motherboards.
- Designed for all Mini-ITX motherboards
- Expansion for I/O and PCIe card



EPC-R Series

Arm-base embedded PC/ Edge Gateway

- Designed for 3.5" SBC
- Arm-based with Linux/Adrio OS
- Industrial peripheral pre-integration



EPC-S Series

Slim and fanless system

- Designed for 2.5" & 3.5" SBC
- Supports desk/VESA mount/DIN rail
- Compact & less than 1U fanless system

Embedded PC - USM



USM-500R

Professional Mini Tower/Standalone Edge Computer

- Intel® 8th/9th gen. Core™ i7/i5/i3 processor with intel Q370
- Support up to 128GB RAM (4 x DDR4 2400/2666, non ECC)
- 1 x PCIe x16, 1 x PCIe x4, 1 x PCIe x1 slots
- Support multiple OS, Windows/Linux



USM-501

Mini Tower/Standalone Medical Computer

- Intel® Xeon® 9th Gen Core™ i7/i5/i3 processor with intel Q370/C246
- Support up to 128GB RAM (4 x DDR4 2666, ECC)
- 1 x PCIe x16, 1 x PCIe x4, 1 x PCIe x1 slots
- IEC-606061-1/IEC-60601-1-2 4th certification

NEW



USM-170

Mini Computer

- Intel® Gen 11th Celeron, i3/i5/i7, 32GB DDR4-3200
- Ultra-compact and fanless design
- Support TPM 2.0 and RAID 1
- HDMI x 2 and USB-C x 1

Edge Computing Solutions



ARK-3532 Series

Performance Series/Intel® 10th Gen Xeon® W and Core™ i3/i5/i7/i9

- Support Intel® 10th Gen. Xeon® W and Core™ i3/i5/i7/i9 processor
- 12-36VDC wide range power input
- Modular design for display port, iDoor I/O, and add-on card expansions



ARK-3531

Performance Series/Intel® 8th and 9th Gen Core™ i3/i5/i7/i9 LGA1151

- Supports Intel® 8th and 9th Gen Core™ i3/i5/i7/i9 35W processor
- Dual display: VGA + HDMI
- 9-36VDC wide range power input



ARK-1551

Compact Series/Intel® 8th Gen Core™ i5

- Gen 8th Intel® Core™ i5/Celeron
- Dual DDR4 2400MHz SO-DIMM memory up to 32G
- 1 x swappable 2.5" SATA HDD drive bay and 1 x mSATA slot, supports Intel software RAID 0/1

Edge Visualization Solutions



DS-100

ARM-based 4K digital signage player for dual displays

- ARM Cortex-A72 + ARM Cortex-A53
- LP-DDR3 2G plus 16G eMMC on board
- Dual HDMI outputs(4K 60fps + 1080P)



DS-082

AMD Ryzen V1000/R1000 Ultra-slim Digital Signage Player

- Power by AMD Ryzen V1000/R1000 processor
- Powerful graphic engine - AMD Radeon HD graphics
- 19mm-thin chassis ideal for space-limited installation



USM-110

4K Ultra-Compact

- Built-in RK3288, Arm Cortex-A17 quad-core processor
- Supports Android 8.1/10.0/11.0, or Linux Debian 9.0
- Dual HDMI outputs

DS-085

Intel Tiger Lake UP3 Ultra-slim Digital Signage Player

- Power by Intel Tiger Lake UP3 processor
- Powerful graphic engine - Intel iRIS Xe graphics
- 19mm-thin chassis ideal for space-limited installation



DS-580

4K Digital Signage Player with Integrated nVIDIA GT Graphics

- Powered by Intel® Atom™ E3950 processors
- Integrated NVIDIA® GeForce® GT 1030 graphics for ultra HD playback
- Quad independent HDMI outputs



DS-280

6th Generation Intel® Core™ i7/i5/i3/Celeron G3902E OPS Player with Triple 4K Output

- 6th Intel® Core™ i7-6822EQ/ i5-6442EQ/ i3-6102E/ Celeron G3902E processor
- Dual channel DDR4-2133 SO-DIMM, up to 32 GB
- 3 independent displays by HDMI 2.0, DP1.2 and rear JAE connector
- Supports Real 4K resolution (4096x2130@60Hz) by front HDMI2.0 & DP1.2

Edge to Cloud Solutions

NEW



EIS-S232

Multi-cloud Integration for Centralized Data and Device Management

- High-performance edge cloud server with Intel® Xeon® W-1290TE and 10 cores up to 4.5Ghz
- Open and standard structure: Kubernetes (MicroK8S) built-in, multiple DB connections, and on-demand micro-services
- Integrated IoT software for private cloud deployment, platform management, and application integration
- Sustainable management — condition monitoring, load balancing, and self-healing
- Integrated iEdge Server dashboard for front-/back-end management

NEW



EI-52

Edge intelligence system with Intel 11th generation with Edge X API and WISE-Device On

- Intel 11th gen. Core i5/i3/Celeron
- Pre-installed Edge X with data acquisition API
- Pre-installed WISE-DeviceOn for device management and remote control
- 8/16 GB Dual-Channel DDR4 Memory Built-in
- 64 GB SATA Slim SSD Built-in
- 4K HDMI and DP 1.4 Dual Display
- Compatible with optional VEGA-330 AI Module supported by Intel Movidius Myriad X VPU
- Intel VNNI support for AI and deep learning



AIR-300

Powerful Edge AI Inference System with Intel® Xeon®/Core™ i3/i5/i7 LGA1151 and supports PCIe x16 high power GPU card up to 260W

- Intel® Xeon® / 6th & 7th Gen. Core™ i3/i5/i7 up to 65W CPU
- Dual independent display: VGA + HDMI
- Dual channel DDR4 SO-DIMM memory support up to 32 GB
- 850W power supply built-in
- PCIe x16 Graphics card support up to 260W
- Two swappable 2.5" hard drive bay
- No RED certification



지능형 HMI 및 산업용 모니터

스마트 팩토리를 위한 HMI 혁신 선도

어드밴텍은 고성능 제어 패널, 산업용 씬 클라이언트, 웹 브라우저 터미널 및 산업용 모니터를 포함하여, iDoor기술이 탑재된 다양한 일반 및 도메인 중심 HMI 제품을 제공합니다. 4차 산업에 대응하여 어드밴텍은 특정 사용 요구 사항을 충족하고자 다양한 구성을 위한 차세대 모듈식 솔루션을 개발하여 고객에게 빠른 출시 시간과 높은 수준의 확장성을 제공합니다.

Modular Industrial Panel PCs

Configurable Modules

Box Modules



NEW



TPC-B610 Series

- Intel® 10th Gen. Core i Socket (LGA1200)
- Optional DDR4 RAM (up to 64GB)
- Graphic Cards Supported (PCIe16)
- 5G Supported (M.2 Key-B 3052)
- Dual 2.5" HDD/SSD
- TPM 2.0 built-in



Why Modular TPC series?



Rapid Customization

Platforms can be rapidly customized according to usage requirements.



Flexibility

Display modules combined with box modules offer a range of flexible platforms.



Easy Maintenance

Box modules can be removed or sent for repair without unmounting the entire platform.



Forward Compatibility

Customers can simply detach and replace the existing module with a new advanced module.



TPC-B510 Series

- Intel® 8th Gen. Core™ i3-8145UE/i5-8365UE/i7-8665UE
- 8GB DDR4 RAM (up to 32GB)
- mPCIe, M.2 NVMe (Key-M 2280)
- 5G Supported (M.2 Key-B 3052)
- TPM 2.0 built-in



TPC-B500 Series

- Intel® 6th Gen. i3-6100U/i5-6300U/i7-6600U/Celeron® 3955U
- 8GB DDR4 RAM (up to 32GB)
- mPCIe, M.2 SSD (Key-B 2280)
- 3 x LAN, PCIe x1
- TPM 2.0 built-in



TPC-B200 Series

- Intel® Celeron® J3455/Atom® E3940
- 4GB DDR3L RAM (up to 8GB)
- mPCIe, M.2 SSD (Key-B 2242)
- Wide Temperature (-20~60°C)
- TPM 2.0 built-in



FPM-B700-AE

- Monitor Box with 2 flexible I/O slots to accommodate FPM-M700 I/O modules for video signal or long distance transmission

Panel Modules

NEW



FPM-D12T-BE

12.1" XGA



FPM-D15T-BE

15" XGA



FPM-D15W-FBE

15.6" FHD



FPM-D17T-BE

17" SXGA



FPM-D18W-BE

18.5" HD



FPM-D19T-BE

19" SXGA



FPM-D21W-BE

21.5" FHD



FPM-D24W-BE

23.8" FHD

All-in-One High Performance Control Panels

NEW



TPC-300 Series with Intel® Core™ i

12.1"/ 15"/ 17"/ 23.8" TFT LED LCD Intel® Core™

- 8th Gen Intel® Core™ i3-8145UE / i5-8365UE / i7-8665UE processor with 8G DDR4 SDRAM
- 1 x USB 2.0, 4 x USB 3.2, 2 x RS-232/422/485, 1 x DP
- Supports dual channel memory
- Supports M.2 NVMe high speed storage
- Supports TPM 2.0, TSN

All-in-One Industrial Thin Clients

NEW



TPC-300 EHL Series with Intel Atom®

12.1"/ 15"/ 17"/ 23.8" TFT LED LCD Intel Atom®

- Intel® Elkhart Lake (EHL) Atom™ 6425E / Celeron® J6412 processor with 4 GB DDR4 SDRAM
- 1 x USB 2.0, 3 x USB 3.2, 2 x RS-232/422/485, 1 x DP
- Powered by Intel® Ethernet Network Adapter I225 and support speeds up to 2.5GbE
- Supports dual channel memory
- Supports M.2 NVMe high speed storage
- Supports TPM 2.0, TSN

Domain-Focused Panel PCs



SPC-200 Series

All-Around IP66-Rated 18.5"/ 21.5" Intel® i3/ i5/ i7 Dual-Core Encapsulated Touch Panel Computer

- Intel® Core™ i3-6100U processor
- 7H surface hardness glass widescreen with true-flat design, and all-around IP66 rating VESA mount support
- Waterproof M12 I/O: 1 x RS-232, 1 x USB, and 2 x LAN (customization is allowed)
- Winner of the 2013 iF product design award



SPC-500 Series

All-Around IP69k-Rated 15" TFT LED LCD Intel® Core™ i3/ Celeron® Stainless Steel Touch Panel Computer

- Intel® Skylake-U i3-6100U CPU
- All-around 304L stainless steel housing with IP69k & M12 connectors
- VESA mount supported
- EN 1672-2 compliance
- Shatter protection film



SPC-800 Series

All-Around IP65-Rated 15.6"/ 21.5" arm-mounted HMI with Intel® i3/ i5/ i7 or Industrial Monitors

- Intel® Skylake-U Celeron®/ i3/ i5/ i7 processor or pure monitor
- All-around IP65-rated protection
- Supports Rittal and Bernstein arm system dimension for mounting
- Supports RAFI FS22+ push button dimension for integration maintenance
- Flexible configuration with integrated customizable extension unit

Explosion Proof Panel PCs

NEW



TPC-125H/155H/318WH

C1D2 Certified 12"/ 15"/ 18.5" TFT LED LCD Industrial Thin Client

- TPC-125H/155H: Intel Atom® quad-core E3845 1.9GHz w/ 4GB of DDR3L SDRAM (optional Intel® Celeron® quad-core J1900 processor)
- TPC-318WH: 8th Gen Intel® Core™ i5-8365UE processor with 8G DDR4 SDRAM
- UL C1D2 certified for hazardous environments
- IP66-rated front panel with durable true-flat 5-wire resistive touchscreen
- Supports iDoor technology and HDD

Web Browser Terminals



TPC-71W

7" i.MX6 Cortex™-A9 Web Browser

- NXP® Cortex™-A9 Dual/ Quad 1.0GHz Processor
- Supports Linux Ubuntu, Windows Embedded Compact 7 and Android 6
- Wide operating temperature range (-20~60 °C)
- Flat-sealed front multi-touch panel with IP66 rating

NEW



TPC-100W

7"/10.1"/15.6" i.MX8M mini Cortex™-A53 Web Browser

- NXP® Cortex™-A53 i.MX 8M Mini quad-core 1.6 GHz processor
- Supports Linux Yocto 3.0, Android 10
- Wide operating temperature range (-20~60 °C)
- Flat-sealed front multi-touch panel with IP66 rating

Industrial Monitors



FPM-7000 Series

True-flat Industrial Grade Monitor

- 6.5"/ 12"/ 15"/ 15.6"/ 18.5"/ 21.5"
- Robust design with IP65/ 66 aluminum bezel
- Elegant true flat design
- Supports panel, wall, desktop, and VESA arm mounting



FPM-5000 Series

Featured Industrial Monitor

- 15"/ 17"/ 19"
- Robust design with IP65/ 66 aluminum bezel
- Front USB extension for diverse applications
- Supports panel, rack, wall, desktop, and VESA arm mounting



FPM-3000 Series

Extreme Rugged Industrial Monitor

- 12"/ 15"/ 17"/ 19"
- Robust design with IP65/ 66 hardened anodized front bezel & SS rear cover
- Wide operating temperature (-20 ~ 60 °C)
- Supports panel, rack, wall, desktop, and VESA arm mounting

Semi Industrial Monitors

NEW

**FPM-200 Series****General Industrial Monitor**

- 12"/ 15"/ 17"/ 19"
- Robust system with die-casting aluminum chassis and IP66-rated aluminum alloy front bezel
- Supports various mount options: panel, desktop, and VESA arm
- 12 Vdc / 24 Vdc supported

NEW

**FPM-200W Series****General Industrial Monitor**

- 15.6"/ 21.5"
- Robust system with die-casting aluminum chassis and IP66-rated aluminum alloy front bezel
- Supports various mount options: panel, desktop, and VESA arm

Domain Industrial Monitor

**FPM-800 Series****Domain Industrial Monitor**

- 15"/ 17"
- Robust design with 304 stainless steel front bezel and anti-rust coated SPCC rear cover
- Wide operating temperature range (-20~60 °C/ -4~140 °F)
- Anti-glare screen with tempered glass and IP66-certified front panel
- Supports panel, VESA, wall, desktop, and stand mounting

RISC Base Panel PC

NEW

**PPC-100 Series****11.6"/15.6" All-in-One Android Panel PC**

- Powered by Rockchip RK3399 chipset with support for 4K decoding
- 16:9 widescreen display with P-CAP touch control
- Front panel with IP65-rated protection
- Pre-installed Android 10 and supports Linux/Debian
- Built-in WISE-IOTSuite/AppHub remote management service for Android devices

Configurable Panel PC

NEW

**PPC-6000C Series****12.1"/15"/17"/19" High Performance Fan Panel PC w/ Selectable Mini-ITX Motherboard**

- Supports Intel® Core™ i desktop processor, up to 65W TDP (socket type)
- Selectable mini-ITX motherboard for diverse requirements
- 2 x expansion slots of PCI or PCIe
- Supports dual SATA storage (RAID 0, 1)

NEW

**PPC-600 Series****15.6"/18.5"/21.5" high performance Fan Panel PC w/ selectable Mini-ITX Motherboard**

- Wide LCD display with multi-point PCAP touch
- Supports PPC-MB mini-ITX motherboard series
- 24 VDC +/-20% power input

General Purpose Panel PC

**PPC-3001S Series with Intel® Core™ i****15.6"/18.5"/21.5"/23.8" Intel® 6th/7th Gen Core™ i7/i5/i3 Fanless Panel PC**

- Intel® Core™ i3-6100U/7100U, i5-6300U/7300U, i7-6600U/7600U processor
- Slim and compact with aluminum alloy enclosure
- Supports dual display and TPM 2.0

NEW

**PPC-300 Series with Intel® Core™ i****15.6"/21.5" Intel® 11th Gen Core™ i7/i5/i3 Fanless Panel PC**

- Intel® Core™ i3-1115G7E, i5-1145G7E, i7-1185G7E processor, up to quad core
- Supports dual channel memory, up to DDR4 3200 64GB
- Supports M.2 2280(NVMe) and RAID 0,1
- Supports TPM and TSN

**PPC-3000S Series with Intel® Celeron®/ Pentium****6.5"/10.4"/12.1"/15"/15.6"/18.5"/21.5" Intel® Celeron®/ Pentium Fanless Panel PC**

- Intel® dual core N2807, quad core N2930/N4200 processor
- Supports E-Eye monitoring and protection
- Supports Android 6.0

NEW

**PPC-300 Series with Intel® EHL Celeron®****10.4"/12.1"/15"/21.5" Intel® Celeron®**

- Intel® quad core J6412 processor
- Supports USB Type C x1 and TSN
- Supports Android

Multiple Function Panel PC

**PPC-3001 Series with Intel® Core™ i****12"/15.6"/21.5" Intel® 6th/7th Gen Core™ i7/i5/i3 Fanless Panel PC**

- Intel® Core™ i3-6100U/7100U, i5-6300U/7300U, i7-6600U/7600U processor
- Wide input voltage range (9~32 VDC) and built-in isolated RS-422/485
- Supports PCI/PCIe expansion and triple display
- Flexible expansion through optional module

NEW

**PPC-400 Series with Intel® Core™ i****15" Intel® 11th Gen Core™ i7/i5/i3 Fanless Panel**

- Intel® Core™ i3-1115G7E, i5-1145G7E, i7-1185G7E processor, up to quad core
- Supports M.2 2280(NVMe) and RAID 0,1
- Supports 5G, TPM and TSN
- Support PCI/PCIe expansion

**PPC-3000 Series with Intel® Atom®****10.4"/12.1"/15"/17"/19" Intel® Atom® Fanless Panel PC**

- Intel® Atom® quad core E3940/E3845 processor
- Wide operating temperature range (-20 ~ 60°C)
- Wide input voltage range (9~32 VDC) and built-in isolated RS-422/485
- Supports PCI/PCIe expansion and triple display

NEW

**PPC-400 Series with Intel® EHL Atom®****15"/17"/19" Intel® Atom® Fanless Panel PC**

- Intel® Atom® quad core x6413E processor
- Wide operating temperature range (-20 ~ 60°C)
- Wide input voltage range (9~32 VDC) and built-in isolated RS-422/485
- Supports PCI/PCIe expansion and triple display
- Supports 5G, TPM and TSN

All-in-One Touch PCs

NEW



UTC-100 Series

15.6/21.5" with Intel® Pentium® N4200 / Core™ i5 Ultra Slim All-in-One Touch Computer

- Built-in Intel® Pentium® N4200 / Core™ i5 processor, up to 16GB of DDR4 SO-DIMM
- Slimmer and Lighter design
- PoE supported on Pentium® N4200 platform(UTC-115G)
- Low-power fanless system with 16:9 widescreen display
- IP65-rated front panel for water and dust resistance
- Support DeviceOn/iService software for remote device management



UTC-300 Series

7/10.1/15.6/18.5/21.5" with Intel® Celeron® J1900/ Core™ i3/i5 All-in-One Touch Computer

- Built-in Intel® Celeron® J1900 / Core™ i3/i5 processor, up to 32GB of DDR4 SO-DIMM
- Detachable frame design for panel mount applications
- Low-power fanless system with 16:9 widescreen display
- 1920 x 1280 Full HD resolution(UTC-320)
- IP65-rated front panel for water and dust protection
- Support both landscape and portrait screen orientations
- Rich I/O and peripherals for diverse applications
- Support DeviceOn/iService software for remote device management (UTC-315/18/20 D&F only)



UTC-200 Series

7/10.1/15/15.6/21.5/31.5/42.5" with Intel® Pentium® N4200 / Celeron® N3350 / Core™ i5 Opened-Frame Touch Computer

- Built-in Intel® Celeron® N3350 / Pentium® N4200 / Core™ i5 processor, up to 16GB of DDR3L SO-DIMM
- Available for embedded into kiosk chassis and wall mount type
- Providing Natural Viewing Experience with 15" 4:3 Display
- Low-power fanless system
- Support both landscape and portrait screen orientations



UTC-500 Series

10.1/15.6/21.5/31.5/42.5" with Intel® Celeron® J1900/ Core™ i5/i7 Rugged All-in-One Touch Computer

- Built-in Intel® Celeron® / Core™ i - series processor, up to 32GB of DDR4 SO-DIMM
- Aluminum frame with side groove design for flexible peripheral installation
- Low-power fanless system with 16:9 widescreen display
- IP65-rated front panel for water and dust protection
- Support both landscape and portrait screen orientations
- Rich I/O and peripherals for diverse applications
- Support DeviceOn/iService software for remote device management



UTC Series Peripherals

- 1D/2D Barcode Reader
- Smart Card Reader
- RFID Reader
- Magnetic Stripe Reader
- 5M Camera Module
- Fingerprint Reader
- iBeacon Module

Industrial Display Solution



IDS-3210R-40SVA1E

10.4" SVGA / XGA Industrial Panel Mount Monitor

- -20° C ~ +60° C wide range operating temperature
- 5-wire resistive touchscreen solution or tempered smudge resistant protected glass
- Combo touch interface: RS-232 and USB
- Dual signal interface with VGA & DVI



IDS-3212R-60XGA1E

12" SVGA / XGA Industrial Panel Mount Monitor

- -20° C ~ +60° C wide range operating temperature
- 5-wire resistive touchscreen solution or 3mm tempered smudge resistant protected glass
- Combo touch interface, both RS-232 and USB
- Dual signal interface with VGA & DVI



IDS-3217R-35SXA1E

17" SXGA Industrial Panel Mount Monitor

- -20 ~ +60° C wide range operating temperature
- 5-wire resistive touchscreen solution or 3mm tempered smudge resistant protected glass
- Combo touch interface: RS-232 and USB
- Dual signal interface with VGA & DVI (on selected models)



IDS-3221WR-25FHA1E

21.5" Full HD, 1920 x 1080, VGA/DVI/HDMI interface, Panel Mount Monitor

- 0 ~ 45° C range operating temperature
- 5-wire resistive, Pcap touchscreen or 3mm tempered protected glass
- USB and RS-232 touch interface
- Flexible signal interface: VGA, DVI & HDMI



산업용 태블릿 솔루션

현장 관리, 제조 및 순찰 검사 지원

8" 및 10" 크기로 제공되는 AIM 및 PWS 산업용 등급 태블릿은 다양한 산업용 애플리케이션을 위해 설계되었습니다. 모바일 컴퓨팅 장치는 실시간 데이터 액세스를 제공하여 현장 작업자가 그 자리에서 정보에 입각한 결정을 내릴 수 있도록 합니다. 이는 워크플로를 간소화하고 효율성을 개선하여 궁극적으로 품질을 최적화하고 생산성을 높입니다. 또한 AIM 시리즈 태블릿에는 시스템 기능을 확장하여 광범위한 애플리케이션을 지원하는 추가 모듈을 통합하기 위한 확장 포트가 장착되어 있습니다.

Industrial-Grade Tablet & Peripherals



AIM-75S

8" Industrial-Grade Tablet with Qualcomm® Snapdragon™ 660 Processor, Android 10, and GMS Certified

- 1920 x 1200 resolution, 400nits brightness, Corning® Gorilla® and multitouch PCAP TS
- LTE, WLAN, Bluetooth, NFC
- IP65 and 4-ft drop tolerance
- Optional vertical solution extension modules and docking station



AIM-65

8" Industrial-Grade Tablet with Intel Atom® Processor, Windows 10 IoT



AIM-78S

10" Industrial-Grade Tablet with Qualcomm® Snapdragon™ 660 Processor, Android 10

- 1920 x 1200 resolution, 380/800nits brightness, Corning® Gorilla® and multitouch PCAP control
- 3G/4G LTE, WLAN, Bluetooth, NFC
- IP65 and 4-ft drop tolerance
- Integrated barcode scanner supports data collection as option
- Optional vertical solution extension modules and docking station



AIM-68

10.1" Industrial-Grade Tablet with Intel Atom® Processor, Windows 10 IoT



Multi-Battery Charging Station



Multi-Tablet Charging Station



Vehicle Docking Station



VESA Docking Station



Office Docking Station



Extension Modules



Rugged Case



Holster



Hand Strap



PWS-872

10" Industrial-Grade Tablet with Intel® Core™ i3/ i5/ i7/Celeron® Processor, Windows 10 IoT

- 1200x 800 resolution, 300nits display brightness, Corning® Gorilla® and multi-touch PCAP, support for gloved operation
- 4G LTE, WLAN, Bluetooth, NFC and GPS modules with BeiDou/ GLONASS support
- Hot-swappable external battery, MIL-STD-810G, IP65 and 4-ft. drop
- Integrated barcode scanner supports data collection as option
- Optional vertical solution extension modules and docking station



LEO-WS10

Handheld Dimensioning and Barcode Scanner

- 1 sec and 1 hand for dimensioning with OIML certification
- Laser aimer for accurate aiming at barcodes
- 3D handheld sizing scanner with embedded 2D scanner
- No pre-calibration needed
- Easy operation and portability
- Compatible with any computer and OS via standard USB I/F



엣지 AI 플랫폼 및 산업용 서버

엣지의 산업용 AI 플랫폼

인공 지능(AI)기술은 보다 더 현명한 결정을 위해 동적 학습을 사용하여 추론 시스템을 대체하면서 정적 규칙 기반 프로그래밍에서 탈피합니다. 첨단 AI 기술은 IoT 기술과 결합하고 스마트 애플리케이션을 사용하여 전체 산업을 재정의하고 있습니다. 어드밴텍은 AI 추론 및 교육과 엣지에서 AI 제품을 제공하기 위해 NVIDIA와 협력했습니다. 이러한 제품은 NVIDIA의 Jetson 시스템 온 모듈(SOM) 및 GPU 카드를 채택합니다. 이러한 시스템을 통해 제조, 운송 및 스마트 시티 애플리케이션에 AI를 제공합니다.

AI Camera



ICAM-500

Industrial AI Camera equipped with NVIDIA Jetson AI system on module

- NVIDIA Jetson AI system on module
- 1.6MP 60 FPS, SONY industrial grade sensor
- Programmable variable focus lens
- Advanced LEDs illumination
- HW ISP no GPU/CPU workload

Ruggedized AI System



MIC-715

Ruggedize AI inference system based on NVIDIA® Jetson™ Xavier NX

- Compact, IP67 rated, fanless design
- Supports 4 x IEEE 802.3af compliant PoE
- Linux OS with board support package
- Supports deep learning trained models
- Operating temperature -25 ~ 60 °C
- Supports 24/7 secure remote monitoring, control, and OTA deployment
- Optional SerDes GMSL

AI Video System



MIC-730IVA/MIC-710IVX /MIC-710IVA

8ch AI Video System on NVIDIA® Jetson AGX Xavier™ / Xavier NX / Nano™

- Supports 8ch PoE video input
- Supports 2 x 3.5" HDD
- Board support package (BSP) includes Linux Ubuntu 18.04
- Supports H.264/H.265 cameras

Edge AI Computing Systems

NEW



MIC-710AIL-DVA2

NVIDIA® Jetson Nano™ Developer Kit

- NVIDIA® Jetson Nano™ embedded
- 1 x M.2 2280 NVMe for storage
- 1 x Mini PCIe for expansion
- Linux OS with BSP (board support package)
- Supports deep learning trained models

MIC-710AIT/AIX/AI

AI Inference System with NVIDIA® Jetson™ TX2 NX / / Xavier NX / Nano™

- Compact fanless design
- 2 x embedded LAN ports
- Linux OS with board support package (BSP)
- Supports deep learning trained models
- Wide operating temperature range
- Supports 24/7 secure remote monitoring, control, and OTA deployment

MIC-710AILT/AILX/AI

Lite AI System based on NVIDIA® Jetson TX2 NX/ Xavier™ NX/Nano™

- Ultra-compact fanless design
- 1 x embedded LAN port
- Linux OS with board support package (BSP)
- Supports deep learning trained models
- Wide operating temperature range
- Supports 24/7 secure remote monitoring, control, and OTA deployment

NEW



AIR-020X

AI Inference System Based on NVIDIA Jetson Xavier NX

- Compact and performance AI box design
- NVIDIA Jetson Nano/ TX2 NX/ Xavier NX embedded
- Wide operating temperature range
- Multiple IO ports: LAN, DIO, COM, USB 3.1 and USB type C
- Additional M.2 2280 expansion storage
- Edge AI Suite AI Utility Support for pre-trained models and deep learning
- Linux BSP supported

NEW



AIR-020T

AI Inference System Based on NVIDIA Jetson TX2 NX

- Compact and performance AI box design
- NVIDIA Jetson Nano/ TX2 NX/ Xavier NX embedded
- Wide operating temperature range
- Multiple IO ports: LAN, DIO, COM, USB 3.1 and USB type C
- Additional M.2 2280 expansion storage
- Edge AI Suite AI Utility Support for pre-trained models and deep learning
- Linux BSP supported

NEW



AIR-020N

AI Inference System Based on NVIDIA Jetson Nano

- Compact and performance AI box design
- NVIDIA Jetson Nano/ TX2 NX/ Xavier NX embedded
- Wide operating temperature range
- Multiple IO ports: LAN, DIO, COM, USB 3.1 and USB type C
- Additional M.2 2280 expansion storage
- Edge AI Suite AI Utility Support for pre-trained models and deep learning
- Linux BSP supported

Edge AI Inference System

NEW



MIC-770 V3 + MIC-75GF10

Edge AI Fanless GPU System support MXM GPU

- Intel® 12th Gen Core™ i CPU socket-type (LGA1700) with Intel® R680E/H610E chipset
- Fanless system support NVIDIA MXM GPU (up to 80W)
- 3 x DP and 1x HDMI with 2x removable 2.5" SATA storage bay



MIC-770 V2 + MIC-75G30

Desktop Compact Fanless System with GPU iModule

- Intel® 10th Gen Xeon®/ Core™ i CPU socket-type (LGA1200) with Intel® W480E/H420E chipset
- Powerful GPU solution with dual NVIDIA 250W, 2.75-slot width, 334mm length GPU cards for new AI application
- Triple 24VDC power inputs with reliable power and OCP solution for up to 1400W maximum peak power currency



AIR-300

Powerful Edge AI Inference System with Intel® Xeon®/ Core™ i3/i5/i7 LGA1151 and supports PCIe x16 high power GPU card up to 260W

- Intel® Xeon® / 6th & 7th Gen. Core™ i3/i5/i7 up to 65W CPU
- Dual independent display: VGA + HDMI
- Dual channel DDR4 SO-DIMM memory support up to 32 GB
- 850W power supply built-in
- PCIe x16 Graphics card support up to 260W
- Two swappable 2.5" hard drive bay
- No RED certification

AI Peripherals



VEGA-320

- m.2 Edge AI Module with one Intel® Movidius™ Myriad™ X VPU onboard
- Intel® Movidius™ Myriad™ X VPU onboard
- Ultra compact, Low power consumption
- Hardware acceleration for common deep neural networks
- Scalable for multi video streams edge inference
- 10 times the performance compared to previous generation
- Intel® OpenVINO™ toolkit fully supported

NEW



SKY-MXM-A2000-4SDA

MXM 3.1 Type A NVIDIA® Quadro® Embedded A2000 with DP 1.4a

- MXM 3.1 Type A form factor
- 2560 CUDA cores
- 20 RT Cores
- 80 Tensor Cores
- 8.25 TFLOPS
- 4 x DP 1.4a
- 4GB GDDR6 memory
- 224GB/s maximum memory bandwidth

NEW



SKY-QUAD-T1000-8-B

NVIDIA Quadro RTX T1000 PCIe 8GB SSLP w/ATX bracket BULK

- PCIe 3.0 x 16, Single slot, Low Profile
- 896 CUDA cores
- 2.5 TFLOPS
- 4 x DP 1.4
- 8GB GDDR6 memory
- 160GB/s maximum memory bandwidth

GPU Server

SKY-610

1U Rackmount GPU Server (1U 5 GPUs)

- Dual 2nd Gen Intel Xeon scalable processors
- DDR4 3200 MHz RDIMM up to 2TB (16 DIMMs), and Intel® Optane™ support
- Supports 1 x PCIe x16 double-deck FH/FL card + 1 x PCIe x16 single-deck FH/HL card or 5 x PCIe x16 single-deck cards



NEW



SKY-640V2

4U Rackmount GPU Server (4U 4 GPUs)

- Dual 3rd Gen. Intel® Xeon® Scalable processor
- DDR4 3200 MHz RDIMM up to 2TB (16 DIMMs), and Intel® Optane™ support
- Supports 4 x double width PCIe cards and 3 x single width PCIe cards
- Easy maintenance system fan design
- Unified front bezel design

Edge Accelerator Servers



HPC-7420+ASMB-976

Short Depth 4U Edge Inference Server

- 3rd Gen. Intel® Xeon® Scalable processor
- DDR4 3200 MHz RDIMM up to 2TB (16 DIMMs), and Intel® Optane™ support
- Front access I/O and chassis depth < 18"
- 11 x PCIe expansion slots (up to 2 GPUs)
- Environment temperature 0 ~ 50 °C
- 2 x hot-swappable 2.5" SATA/SAS/SSD drive bays
- 1 x Slim/ultra slim ODD bay



HPC-6240+ASMB-622

Short Depth 2U Edge Inference Server

- 3rd Gen. Intel® Xeon® Scalable processor
- DDR4 3200 MHz RDIMM up to 1TB (16 DIMMs), and Intel® Optane™ support
- Flexible I/O module design and chassis depth ~20"
- 4 PCIe x16 slots supporting 2 double deck cards
- 4 PCIe x8 slots for single deck expansion slots
- 4 hot-swappable 2.5" SATA/SAS/SSD drive bays (NVMe in option)
- 1 x Ultra Slim ODD bay



HPC-6120+ASMB-610

Short Depth 1U Edge Inference Server

- Intel® Xeon® W & 10th Gen. Core™ i9/i7/i5/i3 processors
- DDR4 2933 MHz ECC/Non-ECC UDIMM up to 128 GB (4 DIMMs)
- Flexible I/O module design and chassis depth <19"
- 1 x PCIe x16 or 2 PCIe x8 slot for 1 double deck card
- 2 x PCIe x4 for low-profile expansion slots
- 2 x hot-swappable 2.5" SATA/SAS/SSD drive bays



엣지 DAQ 디바이스

장비 제조업체, 임대 서비스 및 최종 사용자를 위한 부스터

WISE-PaaS/EdgeLink, Node-RED 및 Python이 포함된 어드밴텍의 엣지 데이터 수집 솔루션은 원격 모니터링을 단순화하도록 설계되었습니다. 이러한 솔루션은 제품 관리를 용이하게 하여 서비스 품질을 개선하고 장비 모니터링과 효율적인 에너지 소비 분석을 가능하게 합니다. 이를 통해 제조업체와 임대서비스의 최종 사용자는 빅 데이터 분석을 통해 인텔리전스를 도출하여 사용 행동에 대한 통찰력을 얻을 수 있습니다.

Data Acquisition Gateways



ADAM-5630/ ADAM-5630E

4/8 Slot Risc-Based Modular DA&C Controller

- TI Cortex-A8 (600 MHz) with 512 MB of DDR3 RAM
- Real-time Linux
- 2 x LAN ports with two MAC addresses
- 4/8 expansion slots
- SD slot for local data storage
- Wired and wireless communication expansion options
- Supports web services

Expansion Modules



ADAM-5091

Serial Expansion Module

- 4 x serial ports
- Supports RS-485/ 232/ 422



ADAM-5192

Network Expansion Module

- 2 x LAN ports



ADAM-5000 Expansion I/O Modules

- 9 x AI/AO modules
- 16 x DI/DO modules
- 2 x counter/ frequency modules



ADAM-3600

Wireless Intelligent RTU

- TI Cortex-A8 (600MHz) with 256MB DDR3L
- Real-time Linux
- 4 expansion slots
- SD slot for local data storage
- 2 x LAN ports with two MAC addresses
- 2 x wireless communication interface (mini-PCle)
- 8 x DI, 8 x AI, 4 x isolated DO channels



ADAM-3651/ ADAM-3656

Digital I/O Expansion Module

- ADAM-3651: 8-ch DI module
- ADAM-3656: 8-ch DO module

ADAM-3617/ ADAM-3624

Analog I/O Expansion Module

- ADAM-3617: 4-ch AI module
- ADAM-3624: 4-ch AO module



ADAM-3668

4-ch Relay Output Module

- 2-ch form A and 2-ch form C
- Contact rating: 0.3A@125V_{AC}, 1A@30V_{DC}



EtherCAT 제어 및 I/O 솔루션

실시간 기계 제어 및 데이터 수집을 위한 통합 CODESYS 솔루션

혁신적인 솔루션의 선두 공급업체인 어드밴텍은 CODESYS 소프트웨어가 장착된 다양한 하드웨어 제품을 제공합니다. CODESYS는 다양한 제어 애플리케이션을 지원합니다. 어드밴텍은 하드웨어와 소프트웨어 솔루션을 통합하고, IoT 애플리케이션 개발을 용이하게 하는 혁신적인 산업용 컴퓨팅 플랫폼과 I/O 기술을 제공하기 위해 최선을 다하고 있습니다. 또한 어드밴텍은 광범위한 제품, 컨트롤러, 필드버스 I/O 모듈을 제공합니다. 이를 통해 도메인 중심 시장을 완벽하게 제어하고 지원하며 4차 산업을 가속화 할 수 있습니다.

Edge Controllers

Cabinet Controllers

NEW



AMAX-637/ AMAX-637S

Real-Time Soft-Logic Cabinet Controller

- CODESYS Control Real Time Engine (RTE) & Visualization (Target & Web)
- Supports IEC-61131-3 PLCopen languages (FBD, LD, IL, ST, and SFC)
- Upstream connectivity facilitates IT/OT integration (MQTT, OPC UA, and ODBC)

Modular Controllers

NEW



EtherCAT



AMAX-658

Real-Time Soft-Logic Modular Controller

- CODESYS Control Real Time Engine (RTE) & Visualization (Target & Web)
- Supports IEC-61131-3 PLCopen languages (FBD, LD, IL, ST, and SFC)
- Upstream connectivity facilitates IT/OT integration (MQTT, OPC UA, and ODBC)
- Supports flexible slices I/O modulars expansion

Panel Controllers (Visualization)

NEW



AMAX-548

Real-Time Soft-Logic Panel Controller

- CODESYS Control Real Time Engine (RTE) & Visualization (Target & Web)
- Supports IEC-61131-3 PLCopen languages (FBD, LD, IL, ST, and SFC)
- Upstream connectivity facilitates IT/OT integration (MQTT, OPC UA, and ODBC)

Machine Vision Solutions

VisionNavi



VisionNavi

Machine Vision Application Software

- Intuitive GUI does not require programming skills
- Flexible licensing options including full, ID, and alignment
- Supports up to 6 x GigE vision cameras with up to 20M resolution in mono and bayer formats
- Supports conditional operator, external API for advanced applications

Fieldbus & I/Os

Profibus Master Expansion Module

NEW



AMAX-5493M

1-Port Hilscher netX100 Profibus Master (DB9)

- Supports Hilscher PROFIBUS Protocol Library
- Supports Wide Operation Temperature -10~60 °C
- Easy to be integrated to AMAX-5580
- Protocol Profibus DP V1
- Speed 9.6 kbps ~ 12 Mbps

Modbus/TCP Coupler

NEW



AMAX-5070

Compact Modbus/TCP Coupler for AMAX-5000 IO Module

- Supports Modbus/TCP & Data Streaming
- Supports up to 255 IO modules
- Dual Power Input with Diagnosis
- Supports EtherCAT cable redundancy connection for local IO

Motion Control Software

NEW

MotionNavi



MotionNavi

Visualized Designer for Standalone Motion Controller

- MotionNavi UT supports motion control cards and MotionNavi Designer for standalone controllers.
- MotionNavi UT and MotionNavi API supports VS.Net programming languages and user-friendly UI for testing purpose
- MotionNavi Designer provides visualized integrated development environment (IDE) and BASIC programming languages
- Provides various diagnostic tools such as one click helper, 3D path display, oscilloscope, and off-line simulator

PC-based Motion Control Solutions

EtherCAT



PCIE-1203/ PCIE-1203L/ PCIE-1203IO

EtherCAT PCI Express Master Cards

- Supports up to 64-axis, domain focus APIs, on-board compare trigger, position latch and MPG function
- High precision motion and I/O control, no need to understand the complicated EtherCAT protocol
- Easy-to-use, rapid development, and wiring-saving
- PCIE-1203IO is an EtherCAT master card for EtherCAT I/O module access only - without motion control functionality. Typical applications include data collection in the field.

NEW



PCIE-1245/PCIE-1245E

Full / Economic Function 4-Axis Stepping and Servo Motor Control PCI Express Card

- Pulse output and Encoder input support CW/CCW/P/D, AB phase
- Memory buffer (10 K points) for trajectory planning
- Supports position latch and trigger
- Supports 1D&2D plane position compensation
- Supports gantry mode by semi-closed loop pulse train control
- Supports dynamic PWM output for velocity following

Standalone Motion Controller Solution

Arm-Based Solutions



AMAX-3110

6-Axis Pulse Train Motion Controller

- 6-axis servo/stepping pulse motor control with built-in SoftMotion kernel
- Supports 16DI/12DO, CMP, LTC, Handwheel, and PWM function
- Supports Advantech MotionNavi Designer
- Easy, rapid development and cost-effective

NEW

EtherCAT



AMAX-354

32-Axis EtherCAT Motion Controller

- Ultra compact size with 100(H) x 70(D) x 34(W) mm
- Flexible I/O Extension with remote EtherCAT modules and local E-bus AMAX-5000 I/O
- Supports MotionNavi Designer low-code environment for rapid development

X86-Based Solution

NEW

EtherCAT



AMAX-33710

EtherCAT I/O Controller

- Compact size for control panel space optimization
- Supports EtherCAT I/O modules which are compatible with EtherCAT standard to realize data collection applications
- Supports MotionNavi Utility providing EtherCAT diagnostic tool to reduce downtime
- Supports C/C++, VS.NET programming languages

Fieldbus & I/Os

Industrial Slice I/Os

EtherCAT



AMAX-5000 I/O Series

Compact Modular EtherCAT Slice I/O

- Removable push-in I/O terminal
- Smart power quality diagnosis
- Dual power inputs
- 2000 V_{DC} isolation
- Supports isolated DI/DO, analogue (V/mV/mA, RTD, thermal couple), AO (V/mA), counter/encoder, Timestamp module
- DC mode selectable

EtherCAT Step Drive

NEW

EtherCAT



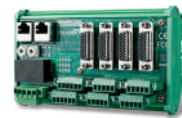
AMAX-4240

4-Axis EtherCAT Step Drive with CiA402

- Drive Capacity : 24V @ 1.5A
- Max Step Frequency : 8.388 MHz
- CiA 402 Support : PP mode
- Optional for 4x Encoder Input
- Compact size with DIN-Rail mount
- Wide Operation Temperature : -20 ~ 50 °C

Slave Modules

EtherCAT



AMAX-3245

4-Axis Pulse Train EtherCAT Slave Module

- EtherCAT packet to pulse output with compact size
- 4-Ch 100kHz compare trigger and 4-Ch 100kHz position latch
- Easy wire to pulse-type servo/stepping motor, high speed trigger for on-the-fly camera capture and dispensing

산업 통신

네트워크 엣지에서 코어까지 원활한 데이터 연결

어드밴텍은 35년 이상의 업계 경험을 활용하여 미션 크리티컬 애플리케이션을 위한 안정적인 유선 및 무선 통신 솔루션을 개발합니다. 이러한 제품에는 산업용 이더넷 스위치, 산업용 Fieldbus 게이트웨이, Modbus 게이트웨이, 셀룰러 IP 게이트웨이, 셀룰러 라우터, 무선 액세스 포인트/클라이언트, 미디어 컨버터 및 직렬 장치가 있습니다. 이들 모두는 안전한 데이터 전송, 네트워크 장치 모니터링 및 제어에 기여합니다.



Intelligent Connectivity Software

WebAccess/DMP



WebAccess/DMP

Device Management and Provisioning

- Remote router management and application delivery
- Device health monitoring and statistics
- RESTful APIs
- Zero-touch provisioning for mass deployment
- Multi-tenancy options
- Supports cloud & on-premise version

WebAccess/NMS



WebAccess/NMS

Network Management System

- Cross-browser compatible
- Online Google Maps and offline OpenStreetMap support
- Dynamic connectivity indication
- Automatically discovers and diagrams network topology
- PoE, ring, wireless, cellular connection indication

WebAccess/VPN



WebAccess/VPN

Advanced Secure Networking Platform

- Remote access solution for routers
- Secure Private Networks in Internet
- Encrypted & reliable communication, centrally defined VPN topology
- Managed LAN, 1:1 NAT modes, firewall & access control
- User-friendly management, easy deployment

Communication Gateways

5G



ICR-4453

New 5G Ready High Speed Router Platform & Edge Computing Gateway

- 5G NR cellular connectivity
- Quad-core CPU & enhanced memory, docker ready
- 2 x SIM, eSIM, 5 x Gigabit Ethernet with optional 4 x PoE
- SFP fiber port, USB, GNSS Receiver, RS-232, RS-485, CAN bus, 2 x DI, 2 x DO
- Optional dual band WiFi 802.11AC

NEW



ICR-20/24/25/27/2800 Series

Industrial Entry 4G LTE Router & Gateway

- LTE CAT4, 1(2)x SIM
- 1/2/4 x Ethernet 10/100
- Optional DI/DO and RS232/485
- Optional USB Host 2.0 & TPM 2.0
- Robust metal cover with wall mount option
- Advanced security features, VPN, Open Linux OS



ICR-3200 Series

Industrial IoT 4G LTE Router & Gateway

- LTE Cat.4 with 3G/2G fallback, 2 x SIM, eSIM
- Powerful CPU with 1.3 GB storage to host customer SW applications, Python, Node-RED
- 2 x Ethernet 10/100, 1 x RS-232, 1 x RS-485 and I/O
- Optional - Wi-Fi 802.11ac, Bluetooth v5.1, GNSS Receiver
- Advanced security features, VPN, Open Linux OS



SmartFlex SR30x Series

Flexible, Modular 4G LTE Router & Gateway

- LTE Cat.4 with 3G/2G fallback, 2x SIM, GNSS Receiver
- 2 x Ethernet 10/100 (Independent or switched)
- Optional - 5 x Ethernet, PoE, RS-232/RS-422/RS-485, Wi-Fi
- Advanced security features, VPN, Open Linux OS
- E-mark, UL CID2, ATEX certifications

Communication Gateways & I/O Nodes



WISE-6610 LoRaWAN Gateway and LoRaWAN I/O Node

- Long-distance wireless data transmission and third-party LoRaWAN device compliant
- Embedded network server and Node-RED, bundle a lightweight IoT protocol MQTT
- LoRaWAN gateway design with backup function
- LoRaWAN node design with IP66-rated reinforced-fiber polyester PBT enclosure

Industrial Wireless AP/Clients

NEW



EKI-6333AC/ EKI-136X Series/ EKI-9502G

802.11AC Wi-Fi AP/ Bridge/ Client/ EN 50155 Router

- Supports 802.11 a/b/g/n/ac MIMO 2T2R
- EKI-136X series support serial device to Wi-Fi or Lan to Wi-Fi variety function
- Supports secure access with WEP, WPA/WPA2-Personal, WPA/WPA2-Enterprise
- Wireless band 2.4G/5G selective/dual
- Provides web-based configuration
- Cellular connectivity with dual SIM cards design for each cellular module (EKI-9502G)

Protocol Gateways

**EKI-1242 Series****Modbus RTU/TCP to Various Industrial Protocols Fieldbus Gateway**

- Dual power inputs
- Designed for protocol extensibility and adaption
- Built-in real-time diagnostics
- I models support a wide operating temperature ranges

Modbus Gateways/ Routers

NEW**EKI-1220(R) Series****1/2/4-Port Modbus Gateway/ Router**

- Integrated stateful firewall for protection from intrusion
- Supports redundancy-enhanced Modbus ID
- Integrates Modbus TCP and Modbus RTU/ASCII network
- Optional fiber optics connectivity (1-port ST or 2-port SC)

Serial Device Servers

**EKI-1500 Series****1/2/4/8/16-Port RS-232/ 422/ 485 Rackmount Serial Device Server**

- Connect up to 8/ 16-port RS-232/ 422/ 485 devices directly to TCP/ IP networks
- High-speed baud rates (50 bps~976.5 Kbps)
- VCOM, TCP server, TCP client, UDP, and RFC2217 modes
- Optional fiber optics connectivity (1-port SC)

Entry-Level Device Servers

**EKI-1511(L)(X)(I) Series****1-Port Device Server**

- L models support RS-232
- X models support RS-422/ 485
- I models support wide operating temperature
- Robust stainless steel exterior with minimalist design

Unmanaged Ethernet Switches

**EKI-2000 Series****Industrial unmanaged Ethernet Switch**

- Supports -40~75 °C wide operation temperatures
- Features fast Ethernet, gigabit Ethernet, POE, POE+ and fiber optics connectors
- Designed in slim size with IP30 metal mechanism
- Supports DIN-rail mounting method

Lite-Management Switches

**EKI-5000 Series****Industrial Entry-level Managed Switch**

- Provides commonly used managed switch features
- ATEX, CID2 certification
- Supports Advantech IXM/NMS technology
- Supports X-Ring Elite and Web GUI for easy configuration
- Supports -40 ~ 75 °C wide operating temperature

L2 Managed Switches

**EKI-7700 Series****Industrial Managed Switch**

- High variety of port combinations
- Supports Advantech Security Pack for cyber security
- IXM function enables fast deployment
- Supports X-Ring Pro and CLI/Web GUI
- EN 50121-4 and NEMA TS-2 certified

TSN Ethernet Switch

**NEW**

TSN

**EKI-8510G****Industrial Time-Sensitive Networking (TSN) Ethernet Switch**

- Fully layer 2 managed features
- IEEE 802.1AS Time Synchronization
- IEEE 802.1Qbu Frame Preemption
- IEEE 802.1Qbv Time Aware Shaper
- IEEE 802.1CB Seamless Redundancy

EN50155 Rolling Stock Switches

**EKI-9500 Series****28/16/12/10/8-Port EN 50155 Rolling Stock Switch**

- EN 50155, EN 50121-3-2, IEC 61373 compliant
- PoE/ PoE+ models are available
- Various port combination with Fast Ethernet/ Giga Ethernet options
- IP40/ IP54/ IP67 and rugged housing

10G Ethernet Solutions

NEW**EKI-7412G-4X/7428G-4X 10G Series****Network Management System**

- 10G uplink bandwidth supported
- Powerful and reliability managed features
- 1U 19 inch rack-mount design
- Up to 60 °C operating temperature

L3 Managed Switches

**EKI-9700/ 9600 Series****Industrial Layer 3 Managed Switch**

- Static routing/ NAT (EKI-9612G, EKI-9628G)
- Static routing, RIP v1/ v2, OSPF v2, VRRP (EKI-9728G)
- Supports up to 4 x 10GbE fiber ports (EKI-9728G)
- -40 ~ 75 °C wide operating temperature

Long Reach Ethernet Solutions

NEW**IMC-150****Hardened PoE Long Reach Ethernet Extender**

- Extend the reach of both power and data delivery
- Supports Link Fault Pass Through (LFPT) mechanism
- Leverage pre-built UTP and coaxial cables to upgrade network infrastructure
- Industrial grade hardware design with EN50121-4 EMC certification

10/100/1000 Mbps PoE(+) Media Converters

**EKI-2740 Series & IMC-390 Series**

- Supports IEEE802.3 af/at PoE(+) standards
- Serves as power sourcing equipment (PSE)
- Designed with 10/100/1000Base-T and SFP or a fixed fiber optics transceiver

Industrial 15/30/60/90W PoE Injectors

**EKI-2701 Series**

- Supports IEEE802.3 at/af/bt standards
- Serves as power sourcing equipment (PSE)
- Extended operating temperature (-40~75 °C)
- EKI-2701IMP1-5G supports 10/ 100/ 1G/ 2.5G/ 5G multi-speed data transmission

Smart Dual Channel 802.3bt Media Converters

**IMC-595MPI**

- Smart media converter with SFP uplink port and .bt PoE port x 2
- Configurable PoE power allocation with max. 180W power
- Configurable PoE behavior to reboot PD and notify link down

Managed 10G Media Converters and Chassis

**IMC-610-A & IMC-700 Series**

- 10G standalone media converter (IMC-610-A)
- Modular design with chassis from 3/6/20 slots (IMC-790-A)
- SNMP manageable via iView software featuring massive provision and monitoring
- Dual (redundant) AC and/or DC hot-swappable power supplies

DAQNavi

데이터 수집 및 제어

DAQ 요구 사항을 충족하는 다양한 폼 팩터

어드밴텍은 다양한 인터페이스와 기능을 갖춘 광범위한 산업용 데이터 수집 및 제어 장치를 제공합니다. 당사의 산업용 I/O 제품은 애드온 카드, 휴대용 모듈에서 신호 조절 및 그래픽 소프트웨어 도구에 이르는 PC 기술을 기반으로 합니다. 이러한 제품은 신뢰성, 정확성, 경제성이 높아 측정, 실험실 운영, 기계 자동화, 생산 테스트 등과 같은 다양한 산업 자동화 애플리케이션에 적합합니다.

PCI Express DAQ Cards



PCIE-1810

16-ch, 12-bit Multi-Function PCI Express Card

- Sample rate: 500 kS/s
- Resolution: 12-bit
- Analog and digital triggers
- Waveform generator for AO channels



PCIE-1805

32-ch, 16-bit Analog Input PCI Express Card

- Sample rate: 1 MS/s
- Resolution: 16-bit
- ± 10 V to ± 1 V voltage measurement
- 0 ~ 20 mA or 4 ~ 20 mA current measurement
- Supports digital and analog triggers



PCIE-1812

8-ch, 16-bit Simultaneous Sampling Multi-Function PCI Express Card

- Sample rate: 250 kS/s/ch
- Resolution: 16-bit
- Analog and digital triggers
- Waveform generator for AO channels



PCIE-1802/ 1802L/ 1803

8/ 4- 8-ch, 24-bit Dynamic Signal Acquisition

- Sample rate: 216 kS/s/ch
- Resolution: 24-bit
- Dynamic range: 115 dB
- Wide input voltage range ($\pm 0.2 \sim 10$ V)
- Built-in anti-aliasing filter

Vibration Sensing Gateways

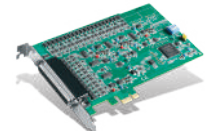


WISE-750

Intelligent Vibration Sensing Gateway

- Set-and-run AI monitoring system
- Comprehensive evaluation, configuration and deployment kit
- Compact size
- 4-channel measurement paired with alarm indication
- Accelerometer included

PCI Express AO Cards



PCIE-1824

32-ch, 16-bit Analog Output PCIe Card

- Resolution: 16-bit
- Update rate: static
- Output range: ± 10 V, 0 ~ 20 mA and 4 ~ 20 mA
- Synchronized output function
- High ESD protection (2,000 V_{ESD})

PCI Express Digital I/O Cards



PCIE-1730H/ 1756H/ 1758

32/ 64/ 128-ch Isolated DI/DO PCIe Card

- 32/ 64/ 128-ch isolated DI/DO channels w/ 24 V compatibility
- Interrupt handling capability for all DI channels
- Software-selectable digital filter time for all DI channels
- 32-ch TTL DI/DO w/ 5 V compatibility (PCIE-1730H only)
- High-voltage isolation on all isolated DI/DO channels (2,500 V_{DC})



PCIE-1761H/ 1762H

8/ 16-ch Relay and 8/ 16-ch Isolated Digital Input w/ Digital Filter and Interrupt PCIe Card

- 8/16-ch opto-isolated digital input channels
- 8/16-ch relay actuator output channels
- Interrupt handling capability for all DI channels



PCIE-1763AH/ 1763DH

16-ch Solid-State Relay (SSR) Output and 16-ch Isolated Digital Input w/ Digital Filter & Interrupt PCIe Card

- 16-ch isolated digital input (IDI) with both dry and wet contact configurations
- Interrupt and noise filter for all IDI channels
- Suitable for both AC (> 80 V_{AC}) and DC low voltage load (< 60 V) applications with frequent ON/ OFF switching
- Much less contact problems such as arcs, bounce, and noise

Modular DAQ Chassis and Modules

NEW



iDAQ-934

4-Slot USB 3.0 iDAQ Chassis

- USB 3.0 with SuperSpeed USB (5Gbps)
- 1 x upstream and 1 x downstream USB port
- LED indicators for status indication
- 2 x PFP for multi-purpose software-configurable trigger/clock settings
- 4 x iDAQ slots

NEW



DAQ Modules

- iDAQ-731, 16-ch isolated DI and 16-ch universal isolated DO iDAQ module
- iDAQ-763D, 16-ch solid-state relay (SSR) DO iDAQ module
- iDAQ-817, 8-ch, 16-bit, 200 kS/s AI iDAQ module
- iDAQ-821, 4-ch, 16-bit, 10 kS/s/ch AO iDAQ module
- iDAQ-801, 4-ch, 24-bit, 256 kS/s/ch IEP sensor input iDAQ module

- iDAQ-815, 8-ch, 24-bit, 400 S/s RTD input iDAQ module
- iDAQ-841, 8-ch, 16-bit, 1 MS/s/ch AI iDAQ module
- iDAQ-751, 48-ch TTL DI/O iDAQ module

NEW



iDAQ-964

4-slot Industrial DAQ Chassis Module for AMAX-5000

- PCIe interface connecting to AMAX-5000 series controllers
- LED status indicators
- 4x iDAQ slots
- 2x programmable function pin for timing signal (trigger, clock) input/output

DAQ-Embedded Computers



MIC-1810/ 1816

Data Acquisition Platform w/ Intel® Processor

- Intel® Celeron® 3955U / Core™ i3-6100U
- MIC-1810: 16x AI channels (sample rate: 500 KS/s; resolution: 12-bit), 2 x AO channels (update rate: 500 KS/s; resolution: 12-bit)
- MIC-1816: 16x AI channels (sample rate: 1 MS/s; resolution: 16-bit), 2 x AO channels (update rate: 3 MS/s; resolution: 16-bit)
- 16 x isolated DI/O



MIC-1816R

DAQ Platform with ARM® Cortex®-A9

- i.MX6 Quad - 4x Cortex-A9 processor
- Build-in 4G EMMC NAND Flash for OS (Yotco only)
- Sampling rate: 1MS/s
- 4 x IEPE inputs with preamp gain = 1, 10, 100
- 8 x analog inputs with voltage or 4~20mA
- 2 x analog outputs, up to 3 MS/s, 16-bit resolution
- 16 x isolated digital input and 8 x isolated digital output

USB DAQ Modules



USB-5801

4-ch, 24-bit USB 3.0 DSA Module

- USB 3.0 with SuperSpeed USB (5Gbps)
- 1 x upstream and 1 x downstream USB port
- 4 x 24bit simultaneous sampling analog inputs up to 192kS/s
- IEPE excitation for every channel
- 1 x tachometer for revolution speed measurement
- Built-in USB hub



USB-5817

8-ch, 16-bit USB 3.0 Analog Input Module

- USB 3.0 with SuperSpeed USB (5Gbps)
- 1 x upstream and 1 x downstream USB port
- 16-bit resolution with 200kS/s sampling rate
- ± 275 V high common-mode voltage range
- Measuring and output error $< \pm 0.1\%$
- Built-in USB hub



USB-5830/ 5856

32/ 64-ch Isolated Digital I/O USB 3.0 Module

- USB 3.0 with SuperSpeed USB (5Gbps)
- 1 x upstream and 1 x downstream USB port
- Built-in USB hub
- 2,500 VDC isolation protection
- Level 3 ESD and surge protection

Machine Condition Monitoring Software

DAQNavi



DAQNavi/MCM

Machine Condition Monitoring Software

- Dynamic signal acquisition and analysis
- Real-time monitoring and alarm notification
- Provides feature extraction algorithms for data processing
- Remote management for distributed monitoring solutions
- Integrated with WebAccess/SCADA
- Ensures easy setup without additional programming

Communication Solutions



PCI/PCIe-1600

PCI/PCIe Communication Cards

- 2/4/8 port PCI serial
- 2/4/8 port PCIe serial
- 2 port PCI/PCIe CAN

시리얼 및 USB 통신 솔루션

IoT 기술로 기존의 시리얼 장치를 개선

시리얼 RS-232, RS-422 및 RS-485는 산업 및 상업용 데이터 통신과 관련하여 실행 가능한 옵션입니다. 어드벤처 ULI 시리즈는 가혹한 작업용 Class 1/ Division 2 오일 & 가스 및 IEC 61850-3 변전소 애플리케이션을 위한 옵션을 포함하여 전체 시리얼 및 시리얼-광섬유 컨버터 제품군은 물론, 격리된 리피터, 서지 억제기, 데이터 탭 및 데이터 스플리터 제품군을 선택 할 수 있습니다. 또한 ULI 시리즈에는 USB 아이솔레이터 및 허브뿐만 아니라, USB에서 시리얼로 변환하는 옵션도 있습니다.

Serial to Fiber Isolated Converters



ULI-211 Series

RS-232/422/485 to Multi-Mode ST Fiber

- Up to 3kV 3-way isolation and 10~48V_{DC} power input
- Up to 115.2 kbps data rate and -40 ~ 80 °C operating temp.
- Supports Modbus ASCII/RTU protocols
- ULI-211C (BB-FOSTCDRI): serial/MM ST converter
- ULI-211CI (BB-FOSTCDRI): rugged serial/MM ST converter with CID2
- ULI-211E (BB-FOSTCDRI-PH-MT): IEC 61850-3 serial/MM ST converter



ULI-212/213 Series

RS-232/422/485 to Single-Mode ST/SC Fiber

- Up to 3kV 3-way isolation and 10~48V_{DC} power input
- Up to 115.2 kbps data rate and -40 ~ 80 °C operating temp.
- Supports Modbus ASCII/RTU protocols
- ULI-212CI (BB-FOSTCDRI-ST): serial/SM ST converter
- ULI-213CI (BB-FOSTCDRI-SC): serial/SM SC converter
- ULI-213E (BB-FOSTCDRI-PH-SC): IEC 61850-3 serial/SM SC converter

RS-232 to RS-422/485/TTL Converters



ULI-220 Series

- Converts RS-232 to RS-422, RS-422/485, RS-485, TTL signals
- Various connector options: DB-9, terminal block, RJ-11
- Up to 2kV 3-way isolation and 10~48V_{DC} power input
- 115.2 kbps ~ 460Kbps data rate and 0 ~ 70 °C / -40 ~ 80 °C operating temp.
- Supports Modbus ASCII/RTU protocols
- ULI-223D (BB-422PP9R): RS-232 to RS-422 (DB-9) converter
- ULI-224TC (BB-485LDR9): RS-232 to RS-422/485 (TB) isolated converter
- ULI-226D (BB-485SD9R): RS-232 to RS-485 (DB-9) converter

RS-232/422/485/CANbus Repeaters/ Isolators



ULI-230 Series

- Extend additional distance: RS-232 15m; RS-422/485 1,200m
- Up to 2kV 3-way isolation and 10~48V_{DC} power input
- Up to 115.2 Kbps data rate and -40 ~ 85 °C operating temperature
- ULI-232DS (BB-95POP2): RS-232 isolator with DB-9
- ULI-234TCI (BB-485OPDR): RS-422/485 (TB) isolated repeater
- ULI-234TE (BB-485OPDR-PH): IEC 61850-3 RS-422/485 (TB) isolated repeater

RS-232/422/485 Surge Suppressors



ULI-240 Series

- 3-stage surge protection on every data line
- Protected signal ground connection with dedicated chassis ground lug
- Wide operating temperature up to -40 ~ 80 °C
- ULI-242T (BB-232HESP): RS-232 (TB) surge suppressor
- ULI-244TI (BB-HESP4DR): RS-422/485 (TB) surge suppressor
- ULI-246T (BB-485HESP): 2-wire RS-485 (TB) surge suppressor

RS-232 Data Taps / Data Splitters



ULI-250/260 Series

- Data taps: monitor and record RS-232 data streams, no external power required
- Data splitter: enable 2 PCs to connect one RS-232 serial device without switching
- ULI-252D (BB-9PCDT): RS-232 (DB-9) data taps
- ULI-262D (BB-9PMD5): RS-232 (DB-9) data splitter

USB to Serial Converters



ULI-300 Series

- Add a COM port to your PC via USB
- Up to 4kV isolation, powered by USB port
- Up to 921.6kbps data rate & -40 ~ 80 °C operating temp.
- ULI-321DC (BB-USO9ML2-A): USB 2.0 to RS-232 (DB-9) isolated converter
- ULI-341TC (BB-USOPT4): USB 2.0 to RS-422/485 (TB) isolated converter
- ULI-361D (BB-485USB9F-2W): USB 2.0 to 2-wire RS-485 (DB-9) converter

Industrial-Isolators USB 2.0/ 3.0 Hubs



ULI-410 Series

- Expand one USB port to 4 or 7 USB ports
- Up to 4kV isolation and 15kV / 8kV ESD protection
- Powered by USB port or 10-30V_{DC} power input, -40 ~ 80 °C operating temp.
- ULI-414LUB (BB-USB4OEM): 4-port USB 2.0 hub bare board
- ULI-414CI (BB-UHR304): 4-port USB 2.0 isolated hub module
- ULI-417H (BB-USH207): 7-port USB 3.0 hub

USB Isolators



ULI-420 Series

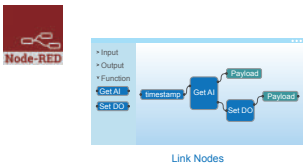
- Up to 4kV isolation and 15kV / 8kV ESD protection for PCs, Laptops, Equipment
- Full (12Mbps) USB speed with high retention USB connectors
- Powered by USB port or 10-30V_{DC} power input, -40 ~ 80 °C operating temp.
- ULI-421CL (BB-UH401): 1-port USB 2.0 isolator
- ULI-421C (BB-UHR401): 1-port USB 2.0 isolator
- ULI-422C (BB-UHR402): 2-port USB 2.0 isolator

IoT를 구현하는 원격 I/O 및 지능형 I/O 게이트웨이

산업용 IoT의 더 넓고 큰 애플리케이션을 위한 변환

어드벤처의 ADAM 원격 I/O 모듈은 업계에서 30년 이상 사용되어 왔습니다. ADAM-4100은 간편한 구성 및 진단을 위해 USB와 함께 견고한 RS-485 Modbus I/O를 제공합니다. ADAM-6000 시리즈는 SNMP, MQTT, RESTful API, 웹 서비스 및 Azure/AWS 인터페이스가 있는 IoT 애플리케이션에 사용되는 이더넷 I/O입니다. 마찬가지로 ADAM-6300 시리즈는 보안/암호화 기능을 갖춘 혁신적인 OPC UA I/O입니다. 또한 ADAM-6700 시리즈에는 Node-RED 또는 WISE-EdgeLink 소프트웨어와 내장 I/O가 탑재된 올인원 지능형 I/O 게이트웨이 솔루션입니다.

Node-RED



Node-RED

Low-Code Programming for Event-Driven Applications

- Node-RED 1.2.2, Node.js 10.22.1
- Browser-based editor to wire flows quickly
- Drag and drop nodes for programming
- Users can visualize the real-time data on the built-in dashboard remotely.
- ADAM-6700 series have built-in sample flows on Node-RED including cloud/database access (SQL Azure), data transmission (MQTT, Modbus), data visualization, logic control, and extended I/O

Intelligent I/O Gateways



ADAM-6700 Series

- RISC/Linux-based, Node-RED
- Multiple I/O & wireless connectivities
- Wide operating temperature range (-40 ~ 70 °C / -40 ~ 158 °F)

Module Selection

Node-RED version

- ADAM-6717: 8AI/5DI/ 4DO
- ADAM-6750: 12DI/ 12DO
- ADAM-6760D: 8SSR/ 8 DI
- ADAM-6766: 6 Relay/ 12 DI

WISE-EdgeLink Version

- ESRP-PCS-ADAM6717: 8AI/ 5DI/ 4DO
- ESRP-PCS-ADAM6750: 12DI/ 12DO
- ESRP-PCS-ADAM6760D: 8SSR / 8 DI

USB to MiniPCle Adapters



ADAM-6700E

- Extend wireless connectivity for ADAM-6700
- Connection between ADAM-6700 series via USB cable
- 1 x wireless communication interface (mini-PCle)
- 1 x micro-B USB
- 1 x nano SIM card slot
- LEDs for power, * reserve LTE module (optional)
- Power reversal protection

OPC UA Ethernet I/Os



ADAM-6300 Series

OPC UA Ethernet I/O Modules

- Uniquely-designed remote I/O with OPC UA protocol
- Directly links to SCADA and cloud, accelerating OT and IT convergence
- Security certificate and encryption
- Cost effective high I/O density
- Supports Modbus and daisy chain

Module Selection

- ADAM-6350: 18DI/18DO
- ADAM-6317: 8AI/11DI/ 10DO
- ADAM-6360D: 8SSR/ 14DI/ 6DO
- ADAM-6366: 6Relay/ 18DI/ 6DO
- ADAM-6315: RTD module

Daisy-Chain Ethernet I/Os



ADAM-6200 Series

- Cloud management: configuration, monitoring, and firmware updates
- Daisy chain connectivity with auto-bypass protection
- Supports HTML5, JavaScript, XML
- Supports GCL/ P2P/ RESTful API
- Group configuration capability
- Supports security MQTT with TLS

Module Selection

- ADAM-6217: 8AI
- ADAM-6224: 4AO/ 4DI
- ADAM-6250: 8DI/ 7DO
- ADAM-6251: 16DI
- ADAM-6266: 4Relay/ 4DI

Smart Ethernet I/Os



ADAM-6000 Series

- Cloud management: configuration, monitoring, and firmware updates
- Embedded web server
- Data stream function to push data
- Supports GCL/ P2P/ RESTful API
- Supports C# .NET and VB.NET
- Supports security MQTT with TLS

Module Selection

- ADAM-6015: 7-ch RTD
- ADAM-6017: 8AI/ 2DO
- ADAM-6018: 8-ch thermocouple
- ADAM-6050: 12DI/ 6DO
- ADAM-6060: 6DI/ 6Relay

Serial I/Os



ADAM-4100 Series

Robust RS-485 I/O Modules

- Wide operating temperature range (-40 ~ 85 °C / -40 ~ 185 °F)
- High protection level: 4-kV surge, 4-kV EFT, 8-kV ESD
- High common mode voltage: 200 V_{DC}
- Power input: 10~48V_{DC}

Module Selection

- ADAM-4115: 6-ch RTD
- ADAM-4117: 8AI
- ADAM-4118: 8-ch thermocouple
- ADAM-4150: 7DI/ 8DO
- ADAM-4168: 8Relay

ADAM-4000 Series

RS-485 I/O Modules

- Watchdog timer
- ±35 VDC over voltage protection
- 3,000 VDC voltage isolation

Module Selection

- ADAM-4015: 6-ch RTD
- ADAM-4017+: 8AI
- ADAM-4018+: 8-ch thermocouple
- ADAM-4024: 4AO/ 4DO
- ADAM-4051: 16DI
- ADAM-4055: 8DI/ 8DO
- ADAM-4068: 8Relay
- ADAM-4080: 2-ch counter module

무선 I/O 및 센서

장비 상태 모니터링 및 클라우드 통합을 위한 산업용 무선 I/O 및 센서 모듈

무선 및 클라우드 기술이 발전함에 따라 점점 더 많은 원격 모니터링 애플리케이션이 광역 관리 시스템에 클라우드 서비스를 채택하고 있습니다. 어드밴텍은 현장 데이터와 클라우드 간 격차를 줄이기 위하여 Wi-Fi, 4G, LoRaWAN, NB-IoT/LTE-M, 독점 LPWAN(Sub-G)과 같은 무선 통신 기술을 활용하여 데이터를 클라우드로 직접 가져오고 전달할 수 있는 무선 I/O 및 센서 모듈을 제공합니다.

Wireless I/O Modules



WISE-4210

Industrial Proprietary LPWAN (Sub-G) IoT Wireless I/O Module

- Battery power for 5 years with 3 x 3.6V AA batteries
- Application-ready I/O combination with modularization design
- Supports MQTT & Modbus/TCP protocol



WISE-4250AS

Industrial Dual Band 2.4/5GHz Wi-Fi IoT Wireless I/O Module

- Dual band 1T1R 2.4/5 GHz IEEE 802.11a/b/g/n
- Build-in security subsystem with its own dedicated Cortex-M4F core
- Secure Over-the-Air (OTA) updates infrastructure and robust application deployment
- Compatible with Azure Sphere



WISE-4471/ WISE-4671

Industrial NB-IoT/LTE-M IoT Wireless I/O Module

- Dual mode support with global coverage in NB-IoT and LTE-M
- Faster and easier deployment with existing infrastructures
- Supports direct public cloud service for IoT integration



WISE-4610/WISE-2200-M

Advanced Industrial LoRaWAN IoT Wireless I/O Module

- Longer communication range with low power consumption
- Better penetration through concrete and steel with less interface
- One stop station with single and multiple I/O solution



WISE-S100

Intelligent Stack Light Monitoring Sensor

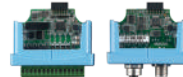
- 8 x light sensors for variety stack-type light towers
- No need to stop the machinery while deployment
- Remote OEE solution by pairing with WISE-4000 series



WISE-S200

I/O and Sensor Module for WISE-4200/4400 Series

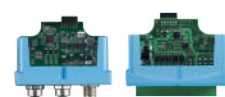
- WISE-S214 4 x AI & 4 x DI
- WISE-S215 4 x RTD
- WISE-S231 temperature & humidity sensor
- WISE-S250 6 x DI, 2 x DO, 1 x RS-485
- WISE-S251 6 x DI & 1-port RS-485



WISE-S400

I/O and Sensor Module for WISE-4400 Series

- WISE-S414 4 x AI (upon request)
- WISE-S472 1 x DI, 1-port RS-485 & 1-port RS-485/232



WISE-S600/ WISE-S600T

I/O Module for WISE-4600 Series

M12:

- WISE-S614 4 x AI & 4 x DI
- WISE-S615 4 x RTD
- WISE-S672 6 x DI, 1 x RS-485 & 1 x RS-485/232 terminal

Block:

- WISE-S615T 4 x RTD
- WISE-S617T 2 x AI, 2 x DI, 1 x DO & 1-port RS-485

Wireless Sensor Modules



WISE-2210/ WISE-2211

Proprietary LPWAN (Sub-G) Self-Powered Analog Input Module

- Directly measure and transmit current transformer (CT) and transmitter (DC 4~20mA)
- Less interference and better penetration compare with 2.4GHz spectrum
- 3 x AI for CT and transmitter



WISE-2410/WISE-2410X

LoRaWAN Smart Condition Monitoring Sensor

- Compliant with ISO 10816 (guidelines for machine vibration evaluation)
- No power and communication wiring with LoRaWAN technology
- Computing onboard, directly transmits vibration characteristic values to application



WISE-2834

Intelligent RFID Gateway

- 4-ports UHF RFID read/write function
- Node-RED package solution
- 4-ports antenna, 4 x DI and 4 x DO
- Ethernet and Wi-Fi interface for up-link



Wizzard™ Edge Monitoring

Starter Kits, Nodes, Sensors

- Non-intrusive, non-disruptive to existing networks
- Network overlay is self-configuring, self-healing
- Condition-based, energy, refrigeration, HVAC/ compressor starter kits are scalable at any time
- Industrial and commercial low-power nodes
- Humidity, vibration, current, temperature, AI, DI sensors



무선 플릿 및 산업 네트워킹

원격 장치 관리 및 데이터 수집

어드밴텍의 원격 장치 관리 솔루션은 무선 자산 모니터링, 데이터 검색 및 제어를 가능하게 합니다. 당사의 무선 솔루션은 다양한 인터페이스, 기능 및 스마트하고 안전한 에너지 절약 기능을 제공합니다. 이 모든 기능들은 원격 장치 또는 모바일 차량 장치의 데이터 전송, 모니터링, 제어 및 네트워킹을 가능하게 합니다. 어드밴텍의 산업 및 기술 전문 지식은 안정적이고 경제적이기 때문에 다양한 애플리케이션에 적합한 솔루션을 제공하기에 안성맞춤입니다.

Onboard Diagnostics (OBD) Vehicle Converters



WISE-4773-S51U

LTE CAT-M1 Data Interface-Light/Heavy-Duty Vehicles

- J1939, J1708/J1587, OBDII (NA)
- GPS location, speed, altitude, heading
- Category M1 low power
- Digital accelerometer
- Industry leading, proprietary OBD database, algorithms
- Temperature range: -30 ~ 75 °C
- Shock, vibration, and drop tested
- SAE J1113, Industry Canada



BB-HD3-A3

Intelligent Interface Adapter-Heavy-Duty Vehicles

- J1939 (250k & 500k) & J1708/J1587 protocols
- Temperature range: -40 ~ 85 °C
- Shock, vibration, drop tested
- SAE J1113/11, /13, /14



BB-LD3IC-S

Intelligent Interface Adapter -Light/Medium-Duty Vehicles

- J1979, J1962 protocols
- ISO 15765, LSGMLAN, Ford Secondary CAN
- Integrated Y cable
- Industry leading, proprietary OBD database/algorithms
- Temperature range: -40 ~ 85 °C
- Shock, vibration, drop tested
- SAE J1113/11, /13, /14



BB-LD3-1939P1D

Intelligent Interface Adapter -Light/Medium-Duty Vehicles

- J1939 protocol
- ISO 15765 (CAN), LSGMLAN, Ford Secondary CAN
- ELD, ELR (FMCSA mandate)
- Industry leading, proprietary OBD database/algorithms
- Temperature range: -40 ~ 85 °C
- Shock, vibration, drop tested
- SAE J1113/11, /13, /14

Serial to BTLE 5.0 Extenders



WISE-4520-NA, WISE-4520-EA

Wireless Extension of RS-232/422/485 Serial Data

- Simple wireless extension of RS-232/422/485 data using BT 5.0 technology
- Easy serial wired communications replacement
- 2.4 GHz frequency band
- Data rate: up to 115.2 kbps
- Input power: 10-30 VDC via terminal block
- Range: up to 800 meters (USA version)
- One digital I/O point
- LED indicators: Power, Connection Status, RSSI
- DIP switch configuration and button pairing (no software required)
- Wide operating temperature
- DIN rail mounting bracket included
- Two or more extenders required
- Power supply required for each unit, sold separately
- Certifications for USA, Canada, Europe



차량용 컴퓨터 및 콜드체인 시스템

창고 관리, 제품 신선도와 품질 유지

어드밴텍 차량용 컴퓨터는 열악한 환경이나 야외 사용에도 안정적으로 작동할 수 있도록 특별 설계된 제품으로 뛰어난 내구성과 넓은 작동 온도 범위를 제공합니다. 제품의 신선도와 품질을 유지해주는 어드밴텍의 원스톱 콜드체인 플랫폼을 사용하여 관리자는 여러 지역을 동시에 관리할 수 있으며, 시각적 인터페이스를 통해 온도 및 습도를 실시간으로 모니터링할 수 있습니다.

Vehicle Mounted Computers



DLT-V6210 FACELIFT

10.4" Rugged Vehicle-Mounted Terminal with Sunlight-Readable Display

- Intel® Atom™ E3825 dual-core, 1.33 GHz, with 4 GB RAM
- 10.4" XGA color TFT display with PCAP touchscreen
- Full IP65-rated design with 5M3 certification
- Wide operating temperature range(-30 ~ 50 °C/-22 ~ 122 °F)



DLT-V7212/V7215P+

12/15" Rugged Vehicle-Mounted Terminal with P-CAP touchscreen

- Intel® Atom™ E3845 quad-core, 1.91 GHz, with 4 GB RAM
- 12.1/15" XGA color TFT display
- Full IP66-rated design with 5M3 certification
- Wide operating temperature range (-30 ~ 50 °C/-22 ~ 122 °F)
- Certified with SOTI and Navis N4 software



DLT-V83

10/12/15" Rugged, High-Performance Vehicle-Mounted Terminal

- Intel® Core™ i5-4300U/Celeron® 2980U dual-core processor
- 10/12/15" XGA color TFT display with abrasion-resistant touchscreen
- IP66-rated design with 5M2/5M3 certification
- Wide operating temperature range (-30 ~ 50 °C/-22 ~ 122 °F)
- Certified with SOTI MobiControl and Navis N4 software

Cold Chain Management Solution



TREK-120

LoRa-Based Cold Chain Temperature/Humidity Sensor

- IP65-rated protection from water and dust ingress
- Long-lasting battery life (up to 36 months depending on usage scenario)
- Wide operating temperature range (-40 ~ 70 °C / -40 ~ 158 °F)



USM-S62

LoRa Data Gateway for TREK-120 Sensors

- Can support up to 200 x TREK-120 sensors
- Backhaul support for LAN/LTE/Wi-Fi
- 9 ~ 20 V wide input voltage range



Cold Chain Suite

Cold chain was designed specifically for the temperature and humidity detection in food and environment

- Precise temperature control during preservation
- Fast wireless installation enables rapid deployment
- High-quality, reliable, and easy-to-maintain IoT devices
- Data digitization, status visualization

Regional Service & Customization Centers

China	Kunshan 86-512-5777-5666	Taiwan	Taipei 886-2-7732-3399	Netherlands	Eindhoven 31-40-267-7000	Poland	Warsaw 00800-2426-8080	USA	Milpitas, CA 1-408-519-3898
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Worldwide Offices

Asia Pacific		Asia Pacific		Europe		Americas	
Taiwan		Japan		Netherlands		North America	
Toll Free	0800-777-111	Toll Free	0800-500-1055	Eindhoven	31-40-267-7000	Toll Free	1-888-576-9668
Taipei & IoT Campus	886-2-7732-3399	Tokyo	81-3-6802-1021	Breda	31-76-523-3100	Cincinnati	1-513-742-8895
Taichung	886-4-2372-5058	Osaka	81-6-6267-1887	Germany		Milpitas	1-408-519-3898
Kaohsiung	886-7-392-3600	Nagoya	81-0800-500-1055	Toll Free		Irvine	1-949-420-2500
China		Nogata	81-949-22-2890	Toll Free		Ottawa	1-815-433-5100
Toll Free	800-810-0345	Korea		Munich		Chicago	1-888-576-9668
Beijing	86-10-6298-4346	Toll Free		Düsseldorf		Boston	1-800-866-6008
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		Singapore		UK		Toll Free	
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		Malaysia		London		Guadalajara	
		Kuala Lumpur		Spain		Middle East and Africa	
		60-3-7725-4188		Madrid		Israel	
		60-4-537-9188		Sweden		Turkey	
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		Bangkok		Poland			
		66-02-2488306-9		Warsaw			
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		Hanoi		Moscow			
		84-24-3399-1155		St. Petersburg			
		84-28-3836-5856		Czech Republic			
		Indonesia		Ústí nad Orlicí			
		Jakarta		Ireland			
		62-21-751-1939		Galway			
		Australia					
		Toll Free					
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		Melbourne					
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		India					
		Bangalore					
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		Pune					
		91-94-2260-2349					

