

.

Enabling an Intelligent Planet

Table of Contents

Edge

Edge+ Overview

Edge+ Solutions Enabling the Future of AloT

🕻 Learn More 🗲

WISE-DeviceOn IoT Device Remote Operation Management

Learn More 🗲

Edge+ AI & Intelligence Solutions

Edge Al Solutions

Learn More 🗲

Edge to Cloud Solutions

Learn More 🗲

AloT Edge Computers

Learn More 🗲

Edge+ Wireless Connectivity

Industrial Wireless Solutions

Learn More 🗲

Wireless ePaper Solutions

Learn More 🗲

Edge+ Domain-focus Solutions

Edge Visualization Solutions

Smart Transportation Solutions

Learn More 🗲



Edge⁺Solutions Enabling the Future of AloT

Unleash Edge Intelligence with AI, 5G, and the Cloud

Advantech provides Edge+ platforms that incorporate domain-focused software, AI, wireless connectivity, and cloud integration. As a result, customers benefit from shortened development times and digital transformation.



WISE-DeviceOn

IoT Device Remote Operation Management

Empowers Edge to Cloud Applications

The market demand for remote device management has grown in unison with the edge device market. Advantech's WISE-DeviceOn IoT remote management software and I.App seres deliver real-time device and data management capabilities that meet these trends.





Equipment Protocol Conversion
DeviceOn/CommBridge



Remote Kiosk Management
DeviceOn/Kiosk+

Device Management



Microsoft Azure

WISE-DeviceOn

Flexible Business Integration



ePaper Device Management

SSD/Memory Monitoring & Security

Industrial Display Remote Control

DeviceOn/SQ Manage

DeviceOn/Display

DeviceOn/ePaper

S/W Application Management Cloud Platform Integration

Star Product Selections

WISE-DeviceOn



WISE-DeviceOn Remote Management

- HW/SW/Peripherals management
- · Real-time monitoring and control
- · OTA Update and batch controls

DeviceOn/iEdge



DeviceOn/iEdge Protocol Conversion

- Support OPC-UA/Modbus/ODBC
- Real-time edge analytics
- Centralized remote management

DeviceOn/Kiosk⁺

Data Management



Plug and Play IoT Deployment

DeviceOn/Kiosk+ Remote Kiosk Management

- Zero touch onboarding and remote monitoring
- · Peripheral devices settings and control
- McAfee whitelisting and Acronis recovery

DeviceOn/ePaper



DeviceOn/ePaper ePaper Centralized Management

- Device management
- Image generator
- Firmware OTA



Edge AI Solutions

Edge AI Acceleration Modules and **Inference Systems**

Empowering Visual AI at the Edge

Advantech provides comprehensive edge AI solutions that enable deep learning for AGV robots, defect inspection, retail, medical imaging, traffic monitoring, and other diverse applications.

DevCloud for the Edge Remotely evaluate prototypes on Advantech's edge Al platform

......

intel.

Reduce development time and costs

Edge Al Suite Integrated OpenVINO toolkit • 100+ pretrained models

intel 🔍 NVIDIA.

OpenVINO

FaceView

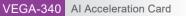
AI Facial Recognition

- 99.7% high precision rate
- Face ID/face mask detection
- · Historical dashboards



Star Product Selections





- 4x/8x Intel[®] Movidius[™] Mvriad X VPUs
- · PCIe x4, 28W power consumption
- 32 TOPS high performance



Din-Rail AI System AIR-101

- 2 x Intel[®] Movidius[™] Mvriad X VPUs
- 12 ~ 28V wide-range power input
- · Edge AI Suite and OpenVINO toolkit



High Performance Al System AIR-020

- 6 core ARM v8.2 and NVIDIA Jetson™ Xavier embedded
- · Supports 5G and Wifi6 connectivity
- Supports high speed &capacity NVMe SSD



FaceView



- 99.7% Accuracy rate
- Mask recognition
- · Human temperature screening

Edge to Cloud Solutions

Integrated Solution with Software-enabled Services

Simplify IoT Deployment from Edge to Cloud

Advantech edge to cloud solutions facilitate IoT connectivity, light edge analytics, and cloud integration, thus simplifying IoT application deployment, visualization, and predictive maintenance. These servers provide an all-in-one solution packages that reduce waste in hardware and software integration.





Controllers









Edge Cloud





Star Product Selections



EIS-D620 Low Power Edge Intelligence System

- RISC-based Rockchip RK3399
- · Debian with 2GB/ 16GB eMMC
- · Support Wi-Fi and 4G wireless connectivity



Ei-52 High Performance Edge Intelligence System

- 11th Gen Intel[®] Core[™] i5/i3/Celeron
- · Pre-installed Edge X with data acquisition API
- · Compatible with AI and 5G modules for AIoT applications



On-premise Edge Cloud EIS-S230

- Intel[®] Xeon[®] E3-1275 V6
- Multiple DB connections
- · Built in Kubernetes and on-demand microservices

DeviceOn/iEdge

Robots



DeviceOn/iEdge Protocol Conversion I.App

- Support OPC-UA/Modbus/ODBC
- Real-time Edge Analytics
- · Centralized Remote Management



IoT Devices

Sensors

Microsoft Azure aws (-) Alibaba Cloud WISE-PaaS

Motors

Workstations

CNC Machines

AloT Edge Computers

Empowerd Edge Computing Solutions

Advantech's ARK Fanless Intelligent Edge Computers provide hardware and software integrated solutions that support multiple I/O and expansions — including AI analytics, wireless connections, and peripheral devices. These computers accommodate factory automation, self-service kiosk, equipment connectivity, computer vision, and other AIoT applications.

WISE-DeviceOn

(((**Q**)))

Real-time devices/peripherals and software monitoring and control

DeviceOn/iEdge

Industrial protocols and data integration in smart automation

DeviceOn/Kiosk⁺ Kiosk remote management in multiple locations

AI model deployment and performance optimization

Wireless Connectivity • 5G, LTE, Wifi, BT, GPS • Certified wi-fi kit available (Selected models)



Scalable, Expand

Motion/vision/frame
grabber cards
Industrial cameras

Al Analytics Built-in

 Supports NVIDIA GPU cards
 Supports Intel Movidius VPUs & OpenVINO toolkit

Star Product Selections



ARK-1220 Din Rail

- One side I/O 2 x GbE, 2 x COM, and 4 x USB
- 12 ~ 28V wide range power input
- Supports -30 ~ 70 °C/-22 ~ 158 °F operating temperatures
- · Supports VEGA-320/330 edge AI modules



ARK-1551 Ultra Slim

- 8th Gen Intel[®] Core[™] i ULV CPU
- Up to 2 x GbE, 4 x USB, 4 x COM, and 12 ~ 24VDC power input
- Supports VEGA-320/330 edge AI modules



ARK-3531 Diverse I/O

- 9th Gen Intel[®] Core[™] i 35W CPU
- Up to 4 x GbE, 8 x USB, 8 x COM, 9 ~ 36VDC power input
- Supports VEGA-320/330 edge AI modules



ARK-3532 High Performance

- 10th Gen Intel[®] Xeon[®] and Core[™] i3/i5/i7/i9 65W
- Supports 23+ I/O connections
- Supports up to 4 x PCI/PCIe slot expansions

Industrial Wireless Solutions

Certified Wireless Kit, 5G, Wi-Fi 6, and Design-in services

Meet the Next Generation of Wireless Technology

Advantech delivers performance and reliability to industrial applications. Our solutions meet industrial application requirements, and adhere to RF certifications for industrial wireless communication antennas.



Star Product Selections

Wifi



AIW-165 Wi-Fi 6 Wireless Module

- Wi-Fi 6 802.11AX and Bluetooth 5.0
- M.2 2830
- 2T2R MU-MIMO antenna
- Operating temperature -40 ~ 70 °C (-40 ~ 158 °F)



5ਫ਼ੈ

AIW-355 5G Wireless Module

- 5G NR/LTE/WCDMA
- Ultra compact 30 x 52 mm (1.18 x 2.04 in)
 M.2 B key
- USB 3.1 bus interface
- GNSS: GPS/GLONASS/Beidou/Galileo



EWM-W192K1/K2 Wi-Fi Wireless Kit

- Wi-Fi 5 and BT 5.0
- M.2 2230 Key AE

Wi Fi

- Certification ready set included
- 1 x module, 2 x cables, and 2 x antenna

EWM-C186K1 LTE Wireless Kit

- LTE CAT16 + GNSS
- M.2 3042 Key B

Ite

- · Certification ready set included
- 1x module, 3 x cables, and 3 x antennas

Wireless ePaper Solutions

Domain-focused Solution Suites and Integrated Software

Centralized Management Accelerates ePaper Implementation

This solution empowers smart factory, building, wardroom, and public signage applications. DeivceOn/ ePaper software management system enables users to update information automatically improve efficiency, and reduce human errors.



Star Product Selections



EPD-210/230/232 Digital Lebal

- · 2.9" EPD in red/black/white
- · Excellent roaming and transmission performance
- NFC/ZigBee-like technology



EPD-332 Scheduling Card

- 5.6" EPD in red/ black/ white
- Excellent roaming and transmission performance
- ZigBee-like technology



EPD-660/662 Clinic Information Board

- 13.3" EPD red/black/white
- Great power management: up to 8 months for 3 updates per day
- 2.4G Wi-Fi

DeviceOn/ePaper



DeviceOn/ePaper ePaper Management I.App

- · Device management
- · Image generator
- Firmware OTA



Edge Visualization Solutions

Visualize Your Applications

Advantech develops edge visualization solutions. Our products comprise 4K digital signage players, edge servers, and management software that accommodate applications in retail, transportation, quick-service restaurants, and education.



Star Product Selections



DS-085 Ultra Slim

- 11th Gen Intel[®] Core™ i3/i5/i7 and Celeron
- 4 x HDMI 2.0
- Supports DASH



DS-082 Ultra Slim

- AMD Ryzen V1000/R1000 CPU
 4 x HDMI 2.0
- 19 mm thickness



DS-580 High Performance Graphics

- Integrated NVIDIA[®] GeForce[®] GT 1030 graphics
- Intel[®] E3950 processor
- + 2 x HDMI 2.0 and 2 x HDMI 1.4



DS-211 Open Pluggable Specification(OPS)

- Powered by Rockchip RK3399
- Supports dual displays (UHD+FHD)
- Expandable via M.2 2230 E key and miniPCle slot

Smart Transportation Solutions

Railway/ In-vehicle/ Roadside Surveillance

Real-time Remote Fleet Management

Transportation Solutions (TS) computers combine AI facial recognition with video and WISE-DeviceOn vehicle diagnostics, maximizing the usage rates of railway, in-vehicle, and roadside surveillance applications. These computers help produce analysis reports, and monitor vehicle/driver statuses in real-time.



Star Product Selections



TS-206 In-vehicle

- Intel[®] Core™ i7-6600U/i5-6300U
- · EMARK, ISO 7637-2 certified
- Supports -20 ~ 60 °C/-4 ~ 140 °F operating temp
- Supports 4 x PoE function



ARK-2250R Rugged Railway

- Intel[®] Core™ i7-6822EQ/i5-6442EQ
- -40 ~ 70 °C/-40 ~ 158 °F EN50155 TX
- Extension 72 ~ 110V voltage range
- · Stackable extension layers



ARK-2250V In-vehicle

- Intel[®] Core™ i7-6822EQ/i5-6442EQ
- EMARK, ISO 7637-2 certified
- Supports -20 ~ 70 °C/-4 ~ 158 °F operating temp
- Stackable extension layers

WISE-DeviceOn



WISE-DeviceOn Remote Control Software

- Real-time vehicle monitoring and tracking
- Remote vehicle diagnostics analysis
- · Power delay control

Edge⁺Solution High-lights



Edge Intelligence Software and Cloud

WISE-DeviceOn improves management, enables real-time remote access, and facilitates efficient operation. It leverages the Cloud and integrated domain-focused application software



AI Software and Inference

Empower AI at the edge and realize real-time intelligence in AGV/drones, defect inspection, traffic monitoring, and medical imaging applications



Wireless Connectivity

Demystify AloT and leverage 5G/Wi-Fi 6 to enjoy faster speeds, millisecond latency, and reduced network congestion

Toll Free

Mexico City

1-800-467-2415

52-55-6275-2777

Regional Service and Customization Centers

hina ^{Kunshan} 86-512-5777-5666	Taiwan	Taipei 886-2-2792-7818	Netherlands	Eindhoven 31-40-267-7000	Poland	Warsaw 00800-2426-8080	USA Milpitas, CA 1-408-519-3898		
/orldwide O	offices								
Asia Pacific		Asia Paci	fic			Europe			
Taiwan Toll Free Taipei & IoT Campus Taichung Kaohsiung China Toll Free	886-4-2372-5058 886-7-392-3600 800-810-0345	Japan Toll Free Tokyo Osaka Nagoya Nogata Korea Toll Free	0800-500-1055 81-3-6802-1021 81-6-6267-1887 81-0800-500-1055 81-949-22-2890 080-363-9494/5	<i>Australia</i> Toll Free Melbourne <i>India</i> Bangalore Pune	ee 1300-308-531 urne 61-3-9797-0100	Netherlands Eindhoven Breda Germany Toll Free Munich Düsseldorf	31-40-267-7000 31-76-523-3100 00800-2426-8080/81 49-89-12599-0 49-2103-97-855-0	Russia Moscow St. Petersburg Czech Republic Ústí nad Orlicí	8-800-555-01-50 8-812-332-57-27 8-921-575-13-59 420-465-524-42
Beijing Shanghai Shenzhen Chengdu Hong Kong	86-10-6298-4346 86-21-3632-1616 86-755-8212-4222 86-28-8545-0198 852-2720-5118	Seoul Singapore Singapore	65-6442-1000			<i>France</i> Paris <i>Italy</i>	33-1-4119-4666	<i>Ireland</i> Galway	353-91-792444
Turkey 90	n d Africa 72-2410527 0-212-222-0422 0-224-413-3134	<i>Malaysia</i> Kuala Lumpur Penang <i>Thailand</i>	60-3-7725-4188 60-4-537-9188			Milan UK Newcastle London	39-02-9544-961 44-0-191-262-4844 44-0-870-493-1433	Americas North America Toll Free Cincinnati Milpitas Irvine Ottawa Chicago Brazil Toll Free São Paulo	1-888-576-9668 1-513-742-8895 1-408-519-3898 1-949-420-2500 1-815-433-5100 1-888-576-9668 0800-770-5355 55-11-5592-536
		Bangkok Vietnam Hanoi Hochiminh	66-02-2488306-9 84-24-3399-1155 84-28-3836-5856			Spain Madrid Sweden Stockholm	34-91-668-86-76 46-0-864-60-500		
		Indonesia Jakarta	62-21-751-1939			Poland Warsaw	48-22-31-51-100	Mexico	