

Advantech

Products & Solutions



Enabling an Intelligent Planet

ADVANTECH

Advantech Strategic Business Groups

Embedded-IoT

Embedded Core & IoT Modules

- Computing on Modules
- Single Board Computers
- Industrial Motherboards
- Embedded Box Computers
- Gaming Solutions
- Industrial Displays
- Industrial Flash Storage (SQFlash)
- Embedded Wireless Modules (M2.COM)
- WISE-PaaS & Cloud Software
- ARM/ RISC Computing
- Modular Board Design Services

Allied DMS

Networks & Communications

- Telecom & Mission Critical Systems
- Enterprise Network Platforms
- Network & Embedded Switches
- Video Broadcasting Solutions

Applied Computing

- Industrial Mobile Computing
- Applied Computing DMS
- Service-IoT DMS

Allied Purchasing Services

- Components (CAPS)
- Peripherals (PAPS)

ADVANTECH

Enabling an Intelligent Planet

Industrial-IoT

Industrial Automation

- Industrial I/O & Controllers
- Automation Computing & HMI
- Motion Controls & Machine Vision
- Remote IoT Devices (WISE)
- WebAccess+ Software
- iFactory (Industry 4.0) Solutions
- Machine Automation Solutions
- Energy & Environment Solutions

Intelligent Systems

- Industrial Computers
- Industrial Servers & Storage
- Intelligent Video Solutions
- Transportation Solutions

iConnectivity

- Network Edge Solutions
- Industrial Switches
- Industrial Wireless Devices
- Industrial Cellular Routers

Service-IoT

Digital Healthcare & Intelligent Hospital

- Medical Computing & Tablets
- Intelligent Hospital Solutions

Intelligent Retail & Hospitality

- iRetail Platforms
- Intelligent Retail & Hospitality Solutions
- Digital Signage Solutions

Digital Logistics & Fleet Management

- In-Vehicle Computing
- Digital Logistics & Fleet Management Solutions

Smart City & iBuilding

Enabling an Intelligent Planet

ADVANTECH

Integrated Embedded Core Computing

WISE-PaaS

Remote Management

Security Management

150+ RESTful APIs

WISE-PaaS/RMM
WISE-PaaS/Security

IoT Software Services



Wireless IoT Gateways & Node Devices



Compact & Rugged IoT Gateways



Multi-function IoT Gateways

IoT Platform Solutions



Embedded PCs



Embedded Box PCs



Digital Signage & Gaming Platforms



Industrial Motherboards



COM SBC MI/O
Small Form Factor (RISC & X86)

Full Range of Embedded Platforms



Industrial Storage Modules



Embedded Modules



Industrial Display Systems



Software Distribution

Compatible Peripherals & Software Solutions

Enabling an Intelligent Planet



Application of Embedded Computing



- **Medical Equipment**
- **Gaming**
- **Self Service KIOSK**
- **Smart Agriculture**
- **Digital Signage**
- **ATM/POS**
- **Industrial Equipment Manufacturing**
- **IoT PaaS service**
- **Military / Defense**
- **Telecom**
- **Machinery**
- **Surveillance**

Full Spectrum of X86 & RISC Platforms for Embedded IoT & Verticals

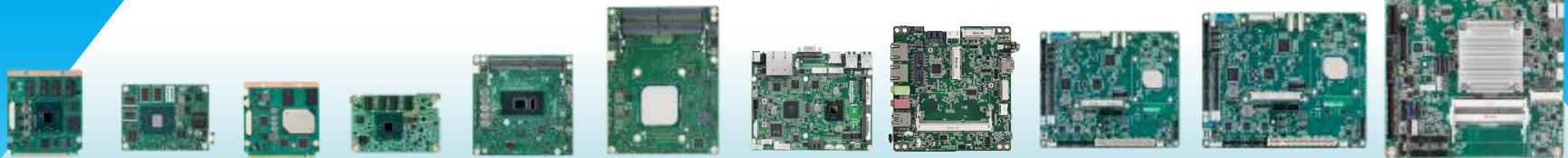
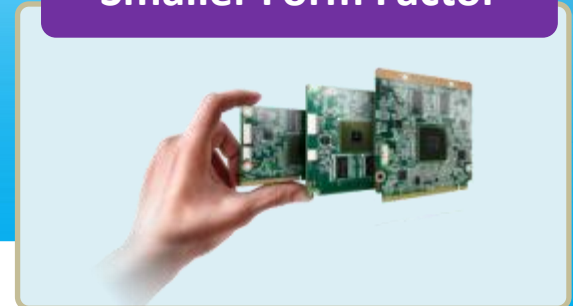
WISE-PaaS Built-in



Workstation & Server-grade



Smaller Form Factor



RTX SMARC Qseven COMe Mini COMe Compact COMe Basic 2.5" SBC UTX 3.5" SBC Mini-ITX Micro-ATX



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ADANTECH

Embedded Module Boards Domain Focus

Computer On Module (COM)



Telecommunication



Networking



Cloud Storage



Industrial Motherboards (AIMB)



Medical



Kiosk/POS



Gaming/Signage



CNC/MA



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ADVANTECH

Embedded Single Boards Computers (ESBC)

Smart Factory



Military



Medical



Railway



Design To Order Service (DTOS)



Enabling an Intelligent Planet



Compact Ultrasound Diagnostic Systems

Enhanced and Efficient Care for Patients



SOM-5894C

Modular design with doubled
3D graphics capabilities

IDK-1115MD

DICOM Compliant for
consistent medical imaging

Smart Bike Sharing Systems

Efficient Transportation with Reduced Carbon and Pollution



IDK-2110
for sunlight readable and
easy-to-use Interface



MIO-2263
for highly reliable and efficient
operation

Embedded PCs



Factory Automation

Gaming

Machine Automation

Transportation

Fanless Embedded PC (ARK)



Event broadcasting

- Extreme performance platform with triple displays
- Capture and stream event videos with CCTV cameras via HDMI interfaces
- Event streaming and encoding capabilities

Medical imaging

- Compact modular platform with I/O expansions
- Capture and process medical image via DVI interfaces
- Intelligent video analysis for medical diagnosis

Lecture recording

- Ultra slim platform with low power consumption
- Video capture, storage and movement detection
- Real-time data collection and reports

T2000 Barebone Application Scenario



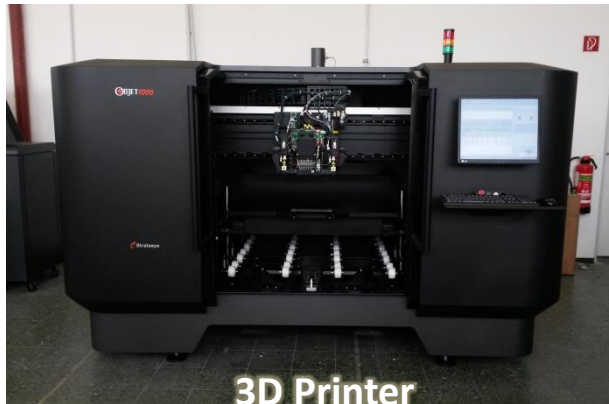
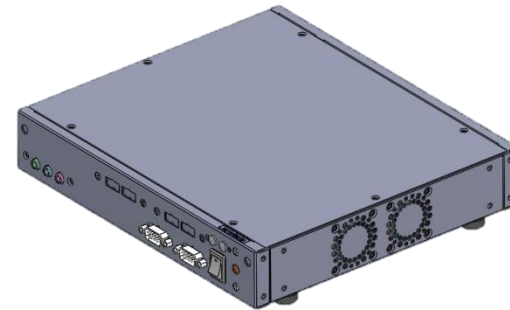
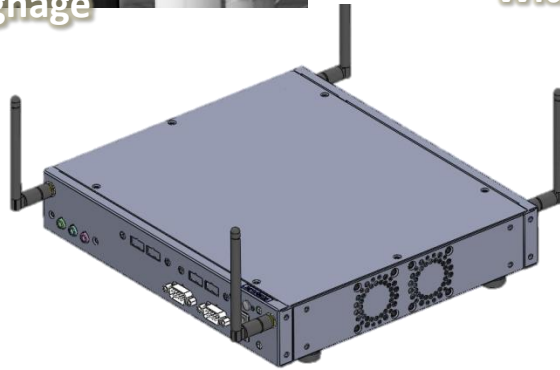
Digital Signage



Wide Format Printer



Intelligent Vending



3D Printer



Restaurant Ordering Machine



Machine Automation

Enabling an Intelligent Planet



Digital Signage | Interactive eMenu Board (Thailand)

Application

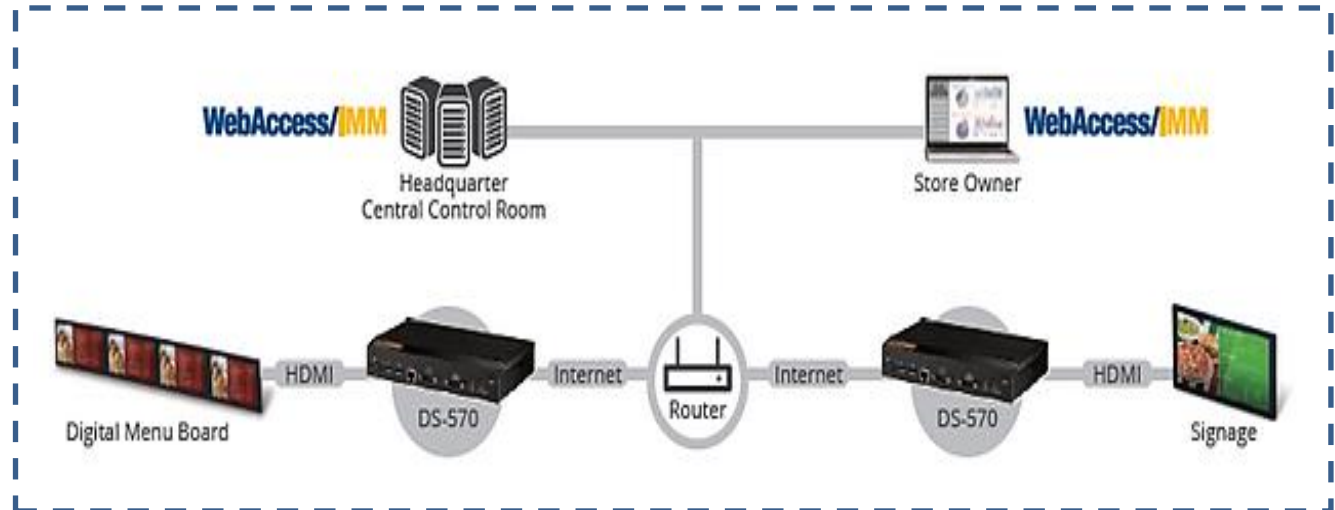
To simultaneously upload, edit, and dispatch to update the menu information and product promotions at every store through data synchronization

Challenge

- Traditional paperboards cost a lot and take time to update the menu and promotion
- Enhance promotional marketing and management efficiency at each store

Winning factors

- Decrease operational expenses
- Customized BIOS



Digital Signage | Video Wall (Guangzhou, China)

Application

To create a lively atmosphere meant to encourage immediate, hands-on interaction between the customer and the product

Challenge

- 55" screens x 15

Winning factors

- Core i7 to support one 3D display & one touch interactive interface
- Ultra-Slim design to fit KIOSK limited space
- Cable-less design
- Customized BIOS



LANCÔME
PARIS

Lancôme Concept Store



Digital Signage | Intelligent Retail Signage (Jakarta)

Application

Displaying promotion items, digital menu board and store express promotion

Challenge

- Fanless Design
- Supports dual display
- Run on Wireless Network

Winning factors

- Intel Celeron J1900 supports dual display
- Wireless network to connect to VPN Server
- Built-in WebAccess/IMM for layout editing, html



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Smart City & iBuilding

Enabling an Intelligent Planet

ADVANTECH

Advantech Industrial IoT Sector



Transportation

- Railway/Subway
- Road Solution
- Airport

General Industrial IoT

- Platform & Device Distribution
- Medical Equipment
- Broadcasting
- Video Surveillance

iNetworking

- Industrial Communications
- Wireless Sensing
- Low-power Wide Area (LPWA)

Energy & Environment

- Renewable Energy
- Environment Monitoring
- Intelligent Agriculture
- Water Treatment
- Smart Grid

Industrial IoT

Industrial Equipment Manufacturing (IEM)

- Equipment for Electronics & Semiconductor (EM)
- Equipment for Traditional Industries (TM)

Intelligent Factory

- Industry 4.0 Solutions
- Smart Manufacturing
- Factory Automation

Industrial IoT Platforms & Solutions



iFactory Solution Platforms



iFactory Machine Vision and Motion



iNetworking



Transportation



Energy & Environment



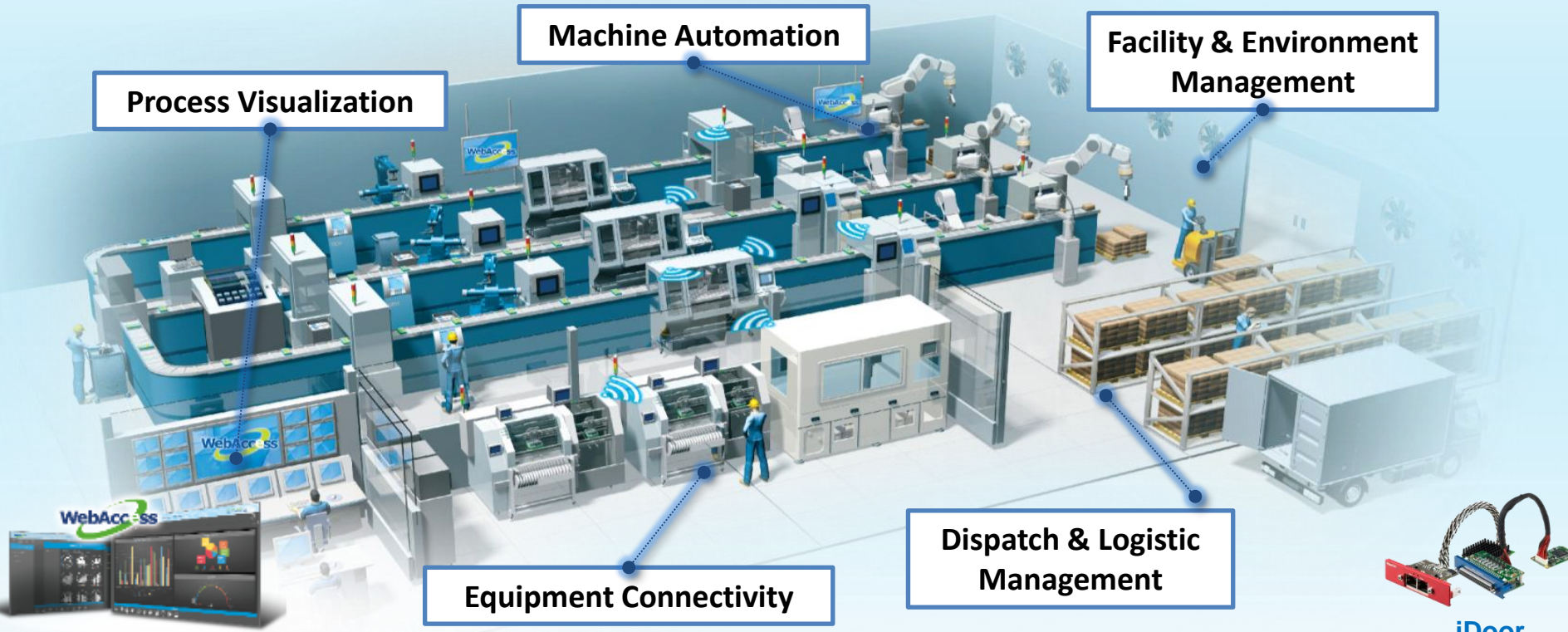
General Industrial IoT

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ADVANTECH

iFactory Solutions

Realizing Smart Factory with Equipment Connectivity and Process Visualization



WebAccess Software



iDoor Modules



Data Acquisition I/O Module



Industrial Protocol Switch



Industrial IoT Gateway



Control Cabinet PC



Control Panels & Thin-client Terminals



Machine Vision & Motion Controller

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Intelligent Transportation Systems



Station Self-Service

ETC

Railway Signaling

Rolling Stock

Station Management

WebAccess/IVS

WebAccess/NMS

WebAccess/SCADA

WebAccess/HMI

WebAccess/IMM

WISE-PaaS/RMM

WISE-PaaS

WISE-PaaS/Security

Platform as a Service(PaaS)



Industrial Communication



AFC Controller



ISCS Front-End Processor



Panel Controller



3U CPCI



Rolling Stock Controller

Computing and Communication Platforms



RF Module



Data Acquisition Module



Capture Card



Camera



Monitor

Sensors and Edge Devices

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Smart City & iBuilding

Enabling an Intelligent Planet

ADVANTECH

Networks & Communications

Your NFVI Partner for the New IP Infrastructure

Does Your Telecom Cloud Infrastructure have the
Competitive Edge?



**FWA Network Appliances
for Telecom and Enterprise Applications**
Unmatched scalability, modular designs,
customization, branding, and advanced platform
management features



**SKY-8000 Carrier-grade &
High-performance Servers**
Rich I/O and high PCIe density
designed for mission critical
workloads



**PAC-6009
Carrier-grade Blade Server**
A micro-data-center-in-a-box with
288 Intel® Xeon® cores and
redundant switching

The industry's broadest range of communication platforms based on Intel® Architecture

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ADVANTECH

Digital Healthcare

Engaged with smarter hospitals



Medical AIO Computers



Medical Displays & iOR Box



Computerized Medical Carts and Telemedicine Solutions



Healthcare Infotainment Terminal



Medical Tablets & AIM



Hospital Self-Service System

Enabling an Intelligent Planet



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ADVANTECH

iRetail & Hospitality- Interactive Digital Signage & Self-Service Kiosks

Building a Seamless Digital Retail Experience



UTC-W101



UTC-300



UTC-500



UTC-600



UTC-200



UTK

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ADVANTECH

iRetail & Hospitality-Intelligent POS System

Enabling Smart Store Management & Big Data Analysis



MPOS-50



MPOS-30



POS Box Series



UTC Series



E-POS Series



W-POS Series



Chameleon Series



UPOS Series

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ADVANTECH

Digital Logistics & Fleet Management

Enhancing the Efficiency of Goods Delivery



Fully Rugged
Vehicle-Mounted Terminal



Mobile Data Terminal for Fleet Management



Rugged Tablet & Vehicle-Oriented Peripherals



Parkinglot Wifi



TPMS



Analog/IP Camera



Temp. & Humidity Sensor



Mounting Kit



Keyboard



Antenna

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ADVANTECH

Our Mission

Enabling an Intelligent Planet

Enabling an Intelligent Planet



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