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)

**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**
Integrated Embedded Core Computing

WISE-PaaS

Remote Management
Security Management
150+ RESTful APIs

WISE-PaaS/RMM
WISE-PaaS/Security

IoT Platform Solutions

Embedded PCs
Embedded Box PCs
Digital Signage & Gaming Platforms
Industrial Motherboards
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

WISE-PaaS IoT Software Platform for

- Alliance & Marketplace
- Microsoft Azure
- 3rd Party Collaboration
- M-Suite
- El Suite
- ES

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

- Texas Instruments
- ARM
- Intel
- NXP
- AMD
- NVIDIA

Enabling an Intelligent Planet
Embedded Module Boards Domain Focus

Computer On Module (COM)

Telecommunication

Networking

Cloud Storage

Industrial Motherboards (AIMB)

Medical

Kiosk/POS

Gaming/Signage

CNC/MA

Enabling an Intelligent Planet
Embedded Single Boards Computers (ESBC)

- Smart Factory
- Military
- Medical
- Railway

Design To Order Service (DTOS)
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

Enabling an Intelligent Planet
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

Enabling an Intelligent Planet
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 I 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 Concept Store
Digital Signage I 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
Advantech Industrial IoT Sector

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

Transportation
- Railway/Subway
- Road Solution
- Airport

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

Intelligent Factory
- Industry 4.0 Solutions
- Smart Manufacturing
- Factory Automation

Enabling an Intelligent Planet
iFactory Solutions
Realizing Smart Factory with Equipment Connectivity and Process Visualization

- Process Visualization
- Machine Automation
- Facility & Environment Management
- Dispatch & Logistic Management
- Equipment Connectivity

- 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

Enabling an Intelligent Planet
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Enabling an Intelligent Planet
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

Enabling an Intelligent Planet
Digital Healthcare
Engaged with smarter hospitals

Medical Displays & iOR Box
Computerized Medical Carts and Telemedicine Solutions
Healthcare Infotainment Terminal
Medical Tablets & AIM
Hospital Self-Service System

Enabling an Intelligent Planet
iRetail & Hospitality - Interactive Digital Signage & Self-Service Kiosks

Building a Seamless Digital Retail Experience
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

Enabling an Intelligent Planet
Digital Logistics & Fleet Management
Enhancing the Efficiency of Goods Delivery

Enabling an Intelligent Planet
Our Mission

Enabling an Intelligent Planet

Enabling an Intelligent Planet