

# INTELLIGENT RETAIL

SMARTER COMMERCE FOR  
RETAIL AND HOSPITALITY

2016  
-Guide Book-

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“ Advantech - Expertise in Digitalized Store Solutions ”

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iRetail Solution Portal







### Foresee the New Era of Intelligent Retail

The IT industry has shifted to a new pattern by bringing innovative business opportunities from the concepts of intelligent city and Industry 4.0. According to a report published by Gartner, investments to all IoT-related industries will reach US\$166 billion by 2020. The main focus then will be on retail, traffic, warehousing, medical and manufacturing industries. In addition, Deloitte's 2015 Global Industry Analysis Report mentions that because retail will be one of the industries most affected by IoT, 40% of top managers consider investments to retail technology applications a key advantage to brand differentiation.

The evolution of retail has now reached an era of "omnichannel", in which the line between internet and brick-and-mortar stores is blurred. A retailer's success relies on customer experience, including pre-sales services, data collection, in-sales shopping experience, after-sales relationship management, etc. Thus, the key to "intelligent retail" development for retailers is to use big data effectively for precise marketing.

Advantech's iRetail focuses on vertical markets such as chain stores, food business, supermarkets, and shopping malls. We pose ourselves as the expert who assists brick-and-mortar retailers in getting the highest market share. We dedicate ourselves to achieving the most effective application of IoT, "cloud", and "terminal" in retailing; using the cloud retail service platform "UShop+" as the core structure, we have developed mobile service, value-added service, and self-service of B2B innovative consumer experiences, as well as B2B smart operation management solutions including chain store management, green logistics management, and business intelligence. Our one-stop retail technology integration service not only improves operational efficiency, but also brings new shopping experiences for consumers and competition advantages for brick-and-mortar retailers in the IoT era.

Following the trend of IoT, Advantech's iRetail team commits to our company culture of "altruistic spirit", providing assistance for retailers who want to break into omnichannel retailing of this intelligent era. As the leader in providing intelligent retail solutions, Advantech not only improves satisfaction of end users, but also enhances efficiency of retailers' operation management.

### Shopper Experience

#### Customer Engagement

Seamless, omni-channel customer experience across all channels.

#### Omni-Channel Marketing

Seamless personalized experiences across channels to increase customer engagement, satisfaction, and sales.

#### Digital Marketing Optimization

Orchestration of digital interactions to attract and retain new visitors, and grow revenue.

#### Interactive Multi-Media

#### Intelligent POS

#### Self-Service System

#### Mobile POS

### UShop+ Cloud

### Business Management

#### Centralized and Remote Management

Billable Hours, Efficiency & Profit. Retailers can hugely reduce cost of travel, vans, time, etc by facilities remote management.

#### Big Data and Business Intelligent

Advanced analytics for big data can complement BI reports and expand the power of performance management metrics and real-time insights.

#### Decision Optimization

Make better decisions by examining all options to prescribe the best possible decision for the business.

#### Energy Management

#### Intelligent Video Analysis

#### RTLS



# Advantech Intelligent Retail Solutions

Focused on Four Vertical Market Sectors

Advantech's iRetail team is committed to developing various intelligent solutions that integrate IoT technology to enable smart service and store management to serve retailers and hospitality owners, such as food and beverage chain stores, hypermarkets, and shopping malls.

A

**Video Walls ▶ P06**  
An interactive multimedia system allows these stunning video walls to display customized content to create unique and engaging experiences for customers.

B

**e-Menu ▶ P09**  
Enables customer database management, customer behavior analysis, and real-time menu and promotions dispatching via cloud-based management platform to effectively optimize customer relationship management and create more marketing stimulus.

C

**Cloud Queuing and Calling System ▶ P12**  
Supports automatic reservation dispatching and management to help shorten queuing time, improving customer satisfaction and operation efficiency.

D

**Intelligent POS Checkout System ▶ P17**  
Integrated with video analysis technology, Advantech POS system enables customer behavior analysis and loss prevention. Users can also remotely edit and deliver multi-media contents onto the POS screen or its external display.

## Food Business

Including western style, Chinese style, and fast food restaurants, beverage shops, bakeries, etc.

## Chain Stores

The main focus is on convenience stores and various types of chain stores, such as apparel, cosmetics, luxury goods, and gyms.



## Hypermarket

Involving all types of superstore or wholesale store, such as RT-Mart or A-Mart

## Shopping Mall

Including all types of shopping malls and department stores.

E

**Interactive Digital Signage ▶ P10**  
By providing interactive content, the digital signage enables retailers to engage with customers more effectively. The web-based content management platform allows retailers to manage content more easily.

F

**Self-Service System ▶ P16**  
Not only features various customer interaction applications, such as O2O, product introduction, floor guide and ticket scanner, but also integrates with wireless technology (iBeacon, RFID or NFC etc.) that can effectively improve customer experience and increase store-marketing channels.

G

**iBeacon Features In-Store Perks ▶ P15**  
The iBeacon, a key platform in the new era of intelligent retail, provides a seamless and real-time shopping experience by featuring customer service, special offers, and easier and faster checkout.

H

**Intelligent Video Analytics ▶ P21**  
Intelligent video solutions offer analytics such as video surveillance, people counting, and demographics. By identifying customer's ages and genders, the system allows retailers to collect valuable customer insight and optimize customer service.

I

**Customer Survey System ▶ P11**  
Instead of conventional questionnaire, customer survey system provides an intuitive and simple tool for collecting customer feedback. All collected information is available for immediate review and can be used for detailed service analysis and optimization.



# Interactive Multimedia Systems

In the age of IoT and advancing communication technology, traditional media communications in brick-and-mortar stores are also undergoing digitalized transformation. The development of diverse value-added service applications, such as interactive video walls, e-menus, intelligent, queuing and calling systems, and intelligent checkout systems, not only improves customer shopping experience but also improves management industry. The interactive multimedia systems also provide an innovative marketing platform and create new revenue streams for retailers.

## Video Walls



### Dynamic and Interactive Video Walls for Building Strong Brand Images

Advantech's video wall solution is the best choice for retailers to increase brand awareness, boost sales, and build a more engaging customer experience. Customized content, such as mall news, product advertisements, mobile coupons, and queuing status updates, can be displayed on the multi-display video walls tailored to specific business needs, which not only provides real-time information to customers, but also enhances the overall experience.

### Key Features

- Supports up to 4 video wall outputs
- Multi-display support: Distinct/Clone/Extended mode
- Web-based user friendly interface
- Supports 30+ media types and 500+ players/clients
- Remote content editing, scheduling, and dispatch



### A Powerful and Engaging Marketing Tool to Increase Revenue

With stunning multi-screens and innovative digital content, video walls are the best tools to actively arouse customers' interests in interacting with content. Advantech's content management software provides an intuitive interface and enables remote editing, managing, and scheduling of promotional content in real-time.



### Enhance Customer Experience and Establish Brand Image

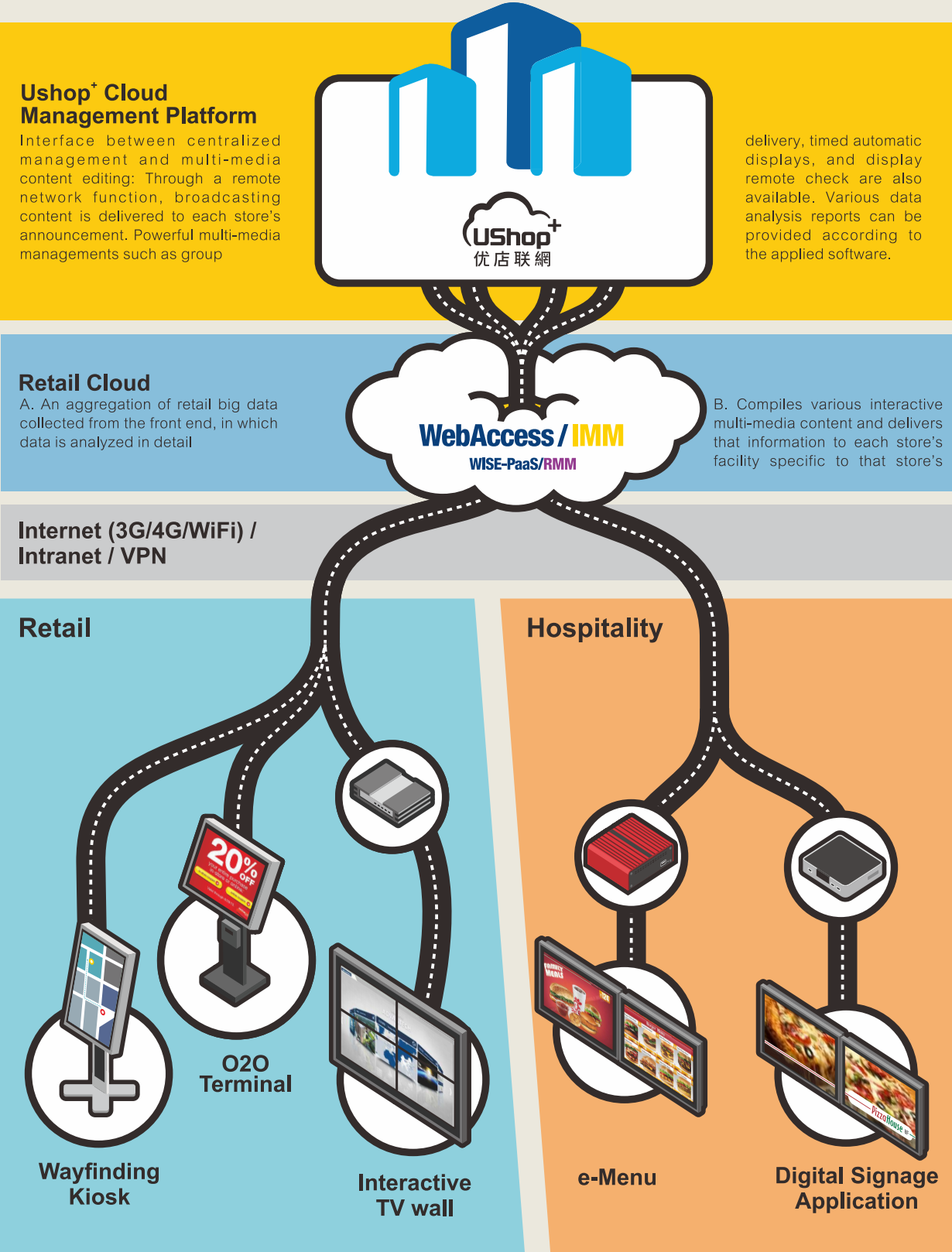
When integrated with peripherals, such as cameras, iBeacons, and printers, video walls better entertain customers by providing a more profound interaction between customers and brands. This dynamic, interactive content creates not only a unique brand image for companies, but also a wonderful shopping experience for customers.



### Cost-Effective Total Solution

Advantech offers the best video wall systems in the market, including a wide range of industrial grade multimedia players and user-friendly management software.





Wayfinding



Multimedia Floor Guide and Wayfinding Service

It is essential for big retail stores and shopping malls to present clear information and navigational directions in order to provide a better shopping experience for customers, especially during peak business hours. Advantech offers diverse panel PCs with various screen sizes to better present this information and help improve customer experience. These kiosks support numerous media formats and can also serve as bulletin boards for broadcasting the latest store news and event information.

Key Features

- Interactive map and wayfinding information
- Store news, event, and promotional information
- Weather and transportation information



One-Stop Information Kiosks

Large interactive screens and captivating digital content are the best tools for product promotions and assisting customers. Through a user-friendly backstage management platform, store owners can exchange multi-media images or content and ensure the messages are delivered to customers according to the time and site.



Automatic Promotions

Wayfinding kiosks can be integrated with digital signage management software and configured to automatically play interactive product advertisements that attract customer attention.



Remote Management of Promotional Content

Using web-based content management platforms, managers can remotely edit and dispatch interactive advertisements and set content delivery schedules to enhance the efficacy of promotional messages.



e-Menu Board



The Most Powerful Promotion Tool Ever!

The e-Menu board system easily promotes services and products through real-time and interactive advertisements. Because employees can directly edit and dispatch promotional content to the e-Menu system, there is no more need for promotional flyers or DMs. Retailers can effectively optimize customer relationship management by analyzing customer behavior on the cloud-based platform. Advantech's e-Menu system has been successfully applied to many food businesses, proving that by providing better service, our system not only improves a customer's experience, but also the store's service reputation.

Key Features

- A single media player can simultaneously control up to 4 e-Menus
- Allows the Headquarter to act as a centralized station, managing menus for more than 500 stores
- Automated dispatching schedule enables an automatic display of breakfast/lunch/dinner menus



Interactive Promotion Display Enables Customer's Eye-Catching and Desire Stimulation

The dynamic e-Menu display provides various options for real-time promotions and product details, helping attract more customer attention and mitigate anxiety during wait-time. These features can improve a store's business, while enhancing the customer's overall experience.



Decrease Printing and Operation Cost Altogether

Compared to traditional menus, Advantech's e-Menu system provides an interactive menu that uses various displays to simultaneously feature diverse promotional content. Because the e-Menu system easily attracts more attention, this solution can completely replace traditional menu, poster, and flyer solutions in terms of saving costs and creating potential profit.



Enables Remote Content Edition and System Management

Using "WebAccess/IMM," the digital signage management software provided, managers can use an online interface to remotely edit, dispatch, and schedule promotional content to display during specific times for effective message delivery.



Centralized Menu Management Reduces More Operation Cost

Advantech's e-Menu system is the perfect cloud-based management solution for retail and hospitality companies, especially chain stores. Users can remotely manage systems for more than 500 stores to save on operating and maintenance expenses.

Interactive Digital Signage



Easy to Build a Dynamic and Colorful Communication Platform

Our system's dynamic multimedia content utilizes rich graphics to provide an immersive viewing experience for consumers. This exposure can positively influence a customers' purchasing decision, helping retailers improve their overall advertising strategy and create more business opportunities. Advantech's interactive digital signage solution combines industrial grade digital signage players with WebAccess/IMM, a web-based content editing/dispatching and remote management software. The convenient interface of WebAccess/IMM allows users to edit and dispatch content to digital signage terminals around the world in just 3 steps, providing outstanding efficiency and convenience of signage management.

Key Features

- Slim and stylist all-in-one touch computer with IP65 front panel protection
- Varied screen sizes and peripherals to fit varied needs
- Web-based content management software with user friendly interface
- Remote content editing, scheduling, and dispatching



Attractive Digital Content to Improve Brand Image and Raise Sales

Our interactive digital signage provides customers with various types of promotional content, such as brand advertising, event news, and product pictures, making it easier for customers to learn about the services or products provided by retailers. A beautiful and creative digital signage is the key factor to improving a store's overall quality and creating a joyful shopping environment.



Efficient and Intuitive Content Management

With a simple interface, users can edit, schedule, and dispatch content with 3 easy steps. The Web-based system allows users to not only to remotely control multiple displays from the admin PC, but also align content delivery to a specific schedule and time zone of promotional events to enhance operational and marketing efficiency.



# Self-Service System

Self Service Stations are very common in the European and American retail market. Integrated with IoT technology, Advantech's Self-Service Systems provide diverse applications for the retail and hospitality environment, such as real-time price checking and way finding functions. These solutions not only help managers save more on operating expenses, but also reduce customer waiting time to improve customers purchase experience.



## Customer Survey System

The e-questionnaire, an ideal tool for staff performance assessment, promptly collects customer feedback to help improve service quality.

## Cloud Queuing and Self-Ordering



### Cloud-based Queuing & Calling Service

Providing efficient high-quality service is essential to establishing a successful restaurant. Advantech's intelligent queue management system enables business owners to increase operational efficiency and service quality by shortening queues and reducing customer wait times. Using the intelligent queue management system, customers can easily join a queue and check its status online. Furthermore, restaurants can use the intelligent queue management system to send customers SMS notifications regarding their queue number and generate real-time daily or monthly reports. By streamlining operations, intelligent queue management systems can also reduce crowding and improve the overall service by delivering an excellent service experience.

### Key Features

- Online Queuing and Calling Service
- Easy Reservation Management
- Real-time Queuing State Checking
- Intelligent Customer Data Analysis



### Easy Queue Management Supports Customer Data Analysis

Advantech's intelligent queue management system can generate reports on the restaurant's queue status. These reports provide real-time daily, weekly, and monthly historical information that can be used as reference for analyzing operations. Managers can use the data to estimate the number of queued and served customers and set daily revenue targets.



### Real-time Queue Display Enables Easy Management and Interactive Promotion

A queue display at the restaurant entrance shows the queue status in real-time, enabling customers to easily view their order in line. Furthermore, managers can use the queue display to advertise and stimulate purchases.



### Queue Status Checking and Notification Improve Service Quality

The intelligent queue management system alerts customers when their queue number is approaching. Restaurant staff can use the management device to request that customers check in. The software interface can be customized according to the application requirements; for example, a group specification of "1-2 people" or "5-6 people" can be added to the queue registration page.



## Self-Checkout System



## Self-Checkout Service

Service speed is a crucial element that influences customer satisfaction. Self-checkout terminals can drastically enhance service quality by enabling customers to easily checkout and pay for products without staff assistance. The installation of multiple self-checkout terminals can accelerate service and reduce crowding to ensure a comfortable shopping environment. These self-checkout terminals can also be integrated with the checkout system software and surveillance system to provide store owners with customer purchase behavior data and comprehensive trading records for preventing/reducing operation losses.

## Key Features

- Efficient Checkout Service
- Effective Customer Data Collection
- Store news, events and promotional Information
- Support WebAccess/IVS for Operating Loss Prevention



## Excellent CPU Performance Enables Efficient Checkout System

To ensure rapid service speed, Advantech's POS systems are equipped with the latest Intel® Core™ processor, which delivers the extreme performance required to satisfy market demands.



## Integrated Digital Signage Software for Interactive Promotional Service

Advantech's self-checkout terminals are integrated with digital signage management software and a second display for providing interactive advertisements. Such advertisements not only appeal to customers and keep them entertained while waiting to be served, but also enhance promotions and generate additional purchase opportunities.



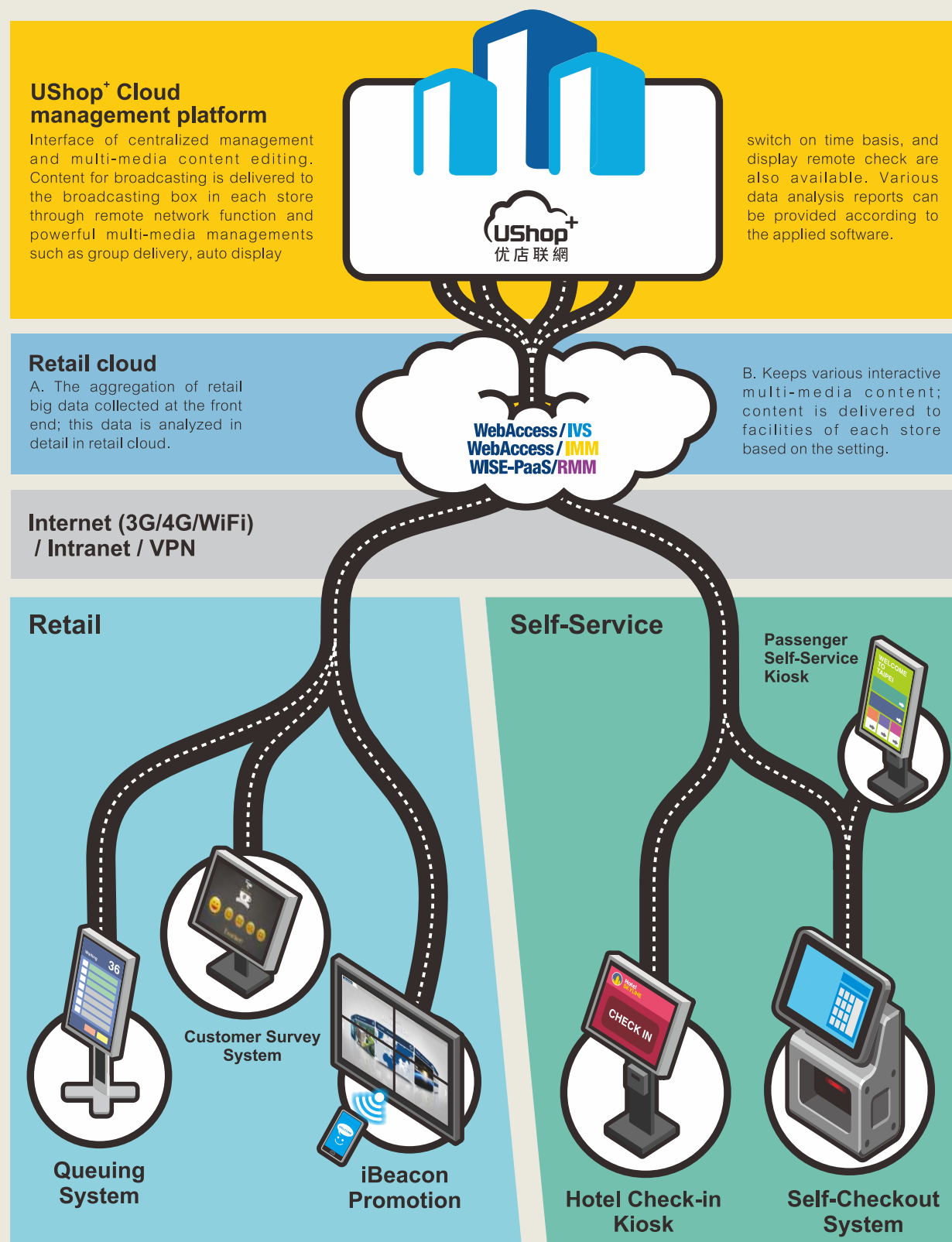
## Consumer Behavior Data Collection Enables Market Trend Identification

To identify market trends and understand consumer demands, Advantech's POS systems can be integrated with checkout software and surveillance data to facilitate cross-analysis of consumer purchase behaviors.



## Integrated with Surveillance Technology for Operating Loss Prevention

With the inclusion of surveillance technology, Advantech's intelligent POS systems can provide store owners with comprehensive trading records for preventing and reducing operation losses.





iBeacon Features In-Store Perks



iBeacons Offer Shoppers a More Streamlined Experience

To redefine the consumer experience, the iBeacon focuses more on proximity rather than location. Customers can use iBeacon to search and watch videos also receive real-time coupons depending on the customer's location in the store. Essentially, if you open a store app that utilizes iBeacon, you can receive directions to an aisle in the grocery store, see where and what other sales are available for a similar product, or find better deals and coupons as you walk throughout the store.

Key Features

- Indoor Navigation
- Promotions Near Shoppers
- Geo Targeted Campaigns
- Heat Map Analytics
- Welcome Message
- Custom Campaigns
- Product Finders



Provide Real-Time Retail Analytics

By using an iBeacon CMS, businesses can communicate and reach out to customers with efficiency similar to that of online-only competitors. They can also receive key insights from the data and analytics left behind from the beacon's connection with a shopper's device.



Creating True Shopper Value with Targeted In-aisle Experiences

Retailers can use beacons to target customers with truly personalized offers by syncing customer shopping lists, wish lists and favorites with their app.



iBeacons Can Save Retailers and Increase Sales

While ecommerce encroaches on the sales of brick and mortar retail chains, proximity-based marketing strategies can revive sales and increase customer engagement. This is where iBeacons can play an important role in helping retailers boost sales.

Hotel



Point-of-Check-In System

Advantech's Point-of-Check-In System enables customers to check room availability, book rooms etc. Moreover, customers can log into their member account to check their membership status and for exclusive discounts. Better yet, integrated with digital signage management software, the terminals can serve as digital signage promotion boards to enhance potential purchase opportunity.

Key Features

- Convenient Self-Service System for Enhanced Hotel Experience
- Membership Management for Improved Complaint and Response Mechanisms (CRMs)
- Marketing Platform for Interactive Promotions

Transportation Hub



Passenger Self-Service Kiosks

Specifically designed for transportation hubs and public service spaces, Advantech's passenger self-service kiosks provide clear information and navigational directions to assist passengers with transit wayfinding and making onward connections. Self-service kiosks can also be used for service check-in and ticketing at peak times to improve service speeds, reduce wait times, and increase passenger satisfaction.

Key Features

- Multimedia Floor Guide and Wayfinding Service
- Efficient Ticketing and Self-Check-In Service
- Interactive Digital Promotions Enhance Marketing



# Intelligent POS

To enhance retail and hospitality services, Advantech offers a wide range of POS systems with different market segment to fulfill diverse applications. Better yet, Advantech's Intelligent POS system is designed to bring a one-step shop environment our customer. Thus, the POS system not only performs checkout services but also integrates with remote monitoring software, digital signage management technology and surveillance systems that support the provision of diverse value-added services. This technology also enables store managers to collect consumer behavior data, increase customer engagement and enhance buyer motivation.

## MPOS-30

5" Portable Handheld POS System



Features:



Support 1D/2D Barcode and NFC Reader



IP 54 Front Panel Protection



OS supports to 64 bits Android 5.1

Benefits:

- Support Various Peripherals for Diverse Applications
- Support Multi-Credit Card Payment
- Wireless Connection and Easy Replacement of Peripherals

## MPOS-50

10.1" Multi-functional Handheld POS System



- 1 10.1" IPS Touch Display
- 2 IP54 Front Panel Protection
- 3 NFC Wireless Reader
- 4 Security Pin Keyboard
- 5 Release Button



Benefits:

- Integrated Security Devise for Data Protection
- Wireless Connection Enable Mobility Payment
- Easy Replacement of Peripheral for Quick Maintenance

Features:



Support Built-in 1D/2D Barcode Scanner



Support Built-in iButton Personal Verification



Built-in UART connector with Power Supply



## Hospitality

Efficient Order and Easy-to-Pay Service

To improve service quality in the hospitality industry, Advantech's MPOS series supports a menu showcase and Easyto-Pay service that help customers easily order and pay their bills to reduce wait time and enhance customer satisfaction.



## Retail

Smart Storage Management and Interactive Demonstration

Ensuring to keep the efficient service in retail industry, Advantech MPOS series not only integrate diverse peripherals to support easy inventory management, but also support interactive product demonstration to help retailer can interact with their customer to increase the potential purchase opportunity.



Intelligent Checkout System



Your First Choice of Intelligent Store Operation

To improve service quality and customer shopping experience, Advantech's Intelligent Checkout POS system integrates with remote monitoring software, digital signage management technology, and surveillance systems to support store managers with collecting consumer behavior data, increasing customer engagement, and enhancing buyer motivation.

Key Features

- Loss prevention
- Video analysis
- Support secondary display for product promotion
- Regularly generates operation report



Integrated with Surveillance Software for Transaction Safety Upgrade

The surveillance software records transaction videos and uploads them to the server so managers can easily check and analyze the videos online. This system is 100% guaranteed to prevent theft and protect consumer rights and interests.



Enabling Customer Database Collection for Business Strategy Optimization

Besides daily operation reports, managers use the POS system database to analyze customer behavior, such as product reviews, quantity of goods purchased, average time spent in the store, and transaction types to enhance their business operation strategy.



Behavior Stimulation

Advantech's POS system can also integrate digital signage management software and support dual displays for providing interactive advertisements. Such advertisements can be used to not only engage and entertain waiting customers, but also increase product awareness and stimulate purchase.

CM-5500

Customizable POS System with Detachable Bezel Design



- 1 Innovative Easy-Change Front Bezel
- 2 Customizable Back Cover
- 3 Modular MSR Card Reader
- 4 Optional VFD/10.1"/15" Secondary Display



Benefits:

- Customizable Design enables Brand
- Modular Design for Easy Maintenance and Upgrade
- Support Diverse Peripherals for Great Extension

Features:



Wireless Connection Design for Easy Screen Replacement



Customizable Back Cover Design



Special Folding Design

E-POS

Cost-effective POS System with Easy HDD Removal Design



- 1 HDD
- 2 10.1" Secondary Display
- 3 MSR Card Reader (MSR+RFID/MSR+WIFI/MSR+IC Card)
- 4 MSR + Fingerprint
- 5 MSR+iButton

Benefits:

- Modular Design Enables Flexible Upgrading and Replacement
- Diverse Secondary Display Enables Interactive Promotion
- Fanless Operation Reduces the Possible Mechanical Failures

Features:



Unique Easy HDD Removal and Replacement Design



Support VFD & 10.1" Secondary Display



Support Wall-Mounting Installation

UTC-300P

16:9 Bezel-Free Widescreen POS System



- 1 16:9 Widescreen Touch Display
- 2 10.1" Secondary Display
- 3 MSR
- 4 RFID
- 5 1D/2D Barcode Scanner
- 6 5M Camera



Benefits:

- Low Power Consumption Reduce Operational Cost
- Diverse Peripherals Support Various Applications
- IP65 Front Panel Protection Can Against Water and Food Spillages

Features:



IP65 Front Panel Protection



Flexible Frame Attachment Design



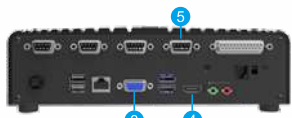
Support Interactive Promotion Service

ABOX-123

Full HD Fanless POS Box



- 1 Power Button
- 2 USB 2.0 Port
- 3 VGA Port
- 4 HDMI Port
- 5 COM Port x 3



Benefits:

- Integrated Security Device for Data Protection
- Wireless Connection Enable Mobility Payment
- Easy Replacement of Peripheral for Quick Maintenance

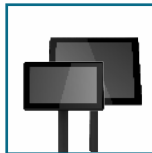
Features:



Support Digital Signage Application



Rugged Aluminum Hole-less Housing



Support Various Display



# Intelligent Video Analytics

How can store owners enhance their operation strategies to more precisely collect and analyze customer data for passenger flow, customer distribution, and customer behavior? Or to more effectively monitor customer behavior and to prevent a checkout dispute? With advanced data analysis technology, Advantech's Intelligent Video Analytics Solution can help store owners solve all the above problems, better understand market trends and store operations, and improve their operation strategies.



## Customer Profiling

Gathers real-time customer gender and age information by analyzing the faces in the camera: This information can also be combined with store locations, sales promotions, sales data, and weather information to provide various business intelligent reports. This solution analyzes customer structures in different store locations to suggest the most suitable sales strategies and marketing campaigns for each store.



## Operating Loss Prevention

A specific video management system with fully-integrated POS software, which enables users to combine video and transaction data to assist loss prevention and provide evidence in case of customer disputes. It can also combine video analytics, such as face detection and people counting to monitor customer preferences and employee performance.



## People Counting

Accurately measuring store traffic helps owners make smarter business decisions. Advantech's people counting and customer tracking solutions can help all types of stores monitor pedestrian traffic.



## Ushop+ Cloud Management Platform

Users can check various BI reports and facilities operation through all kinds of explorer, tablet or mobile phone, and set reading authorization according to management level.



## Retail Cloud

A. The aggregation of retail big data collected at the front end; this data is analyzed in detail in retail cloud and thus realizes retail IoT application.

B. Back end cloud management platform; provides functions such as remote facilities monitoring, operation system remote KVM, system recovery and protection. Improves system reliability, save facilities maintenance cost and overall operation and management cost.

WebAccess / IVS  
WISE-PaaS/RMM

Internet (3G/4G/WiFi) / Intranet / VPN

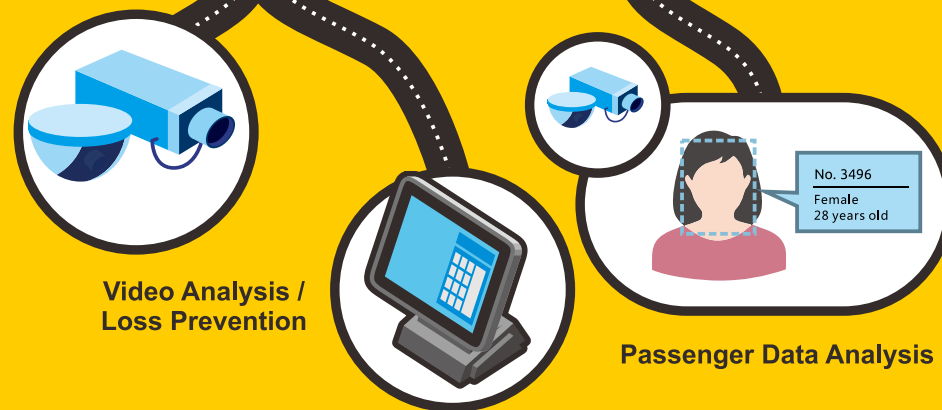
## Video Analyze Server

Installed at back-end of each store, it receives the original data (camera, electricity meter, thermometer, etc.) which is provided by most front-end sensor. It conducts initial count, arrangement and analysis and then uploads this data to retail cloud for aggregation.



## Intelligent Video Analyze

It obtains customer images through a camera, counts passenger volume and recognizes customers' gender and age. It can be upgraded to VIP recognition. Meanwhile, by integrating with checkout software data, this function can ensure loss prevention, improve in-store control mechanism and decrease operating loss.



## Remote Video Inspection

Remote video inspection is the perfect solution for operation process management. Instead of visiting each store, managers can stay at home or in the office to inspect real-time or past videos on computers or mobile phones, significantly saving time and manpower cost. Storage of all inspection videos and front-end facilities fault detection are all uploaded to the cloud through network.



## Store Inspection System

Advantech's store inspection system uses app and video technology to simplify inspection routine and help managers save inspection time, conduct safety control, and distribute tasks. Advantech's store inspection system makes inspection routines simpler and improves working efficiency of manager of chain stores.



## Best BI Solution

Ushop+ Advantech's business intelligence system for retail in-store analytics offers science-based shopper behavior and store performance analysis with crystal clear insights. With the complete features including Traffic Counting and Conversion, Hot Zone & Popular Goods, Stuffing Optimization and Shopper Engagement, Ushop+ turns complicated scientific data into easy-to-read visual reports. Traditional guesswork on shopper study stops here; efficient store operation and marketing strategies will be delivered together with the ultimate shopping experience to meet the true needs of shoppers.



## Energy Management System

Why aren't chain stores able to generate expected net profit despite amassing considerable sales? As public facilities, brick-and-mortar stores need to monitor their environmental and energy activities. The environmental energy monitoring solution intelligently controls and manages indoor air quality and energy consumption, not only saving power consumption but also creating a pleasant shopping environment.



### Energy Management

Air-conditioners, refrigerators, lights, and ovens are some chain store appliances that consume the highest amount of energy; if every store can save on a certain energy source every day, the overall conserved energy will generate considerable profit. Advantech's energy management solution enables information visualization by connecting all energy-consuming equipment to the network. Based on the received real-time energy consumption data of all stores, the headquarter can save electricity cost through further remote control.



### Indoor Air Quality Management

All indoor environment data such as temperature, humidity, CO/CO2 intensity, and PM2.5 intensity impacts consumer shopping experience as well as store safety. Advantech's indoor air quality management solution enables all stores to detect real-time environment data and upload them to the cloud. This helps management to promptly interpret the store environment promptly so it can immediately take action when necessary.

### Ushop+ Cloud management platform

Detects store energy consumption, air quality, and equipment operation status in real time, provides visualized and precise graph report, centrally analyzes and controls store energy consumption and environment, and save unnecessary waste and loss through further remote monitoring.

### Retail cloud

A. The aggregation of retail big data collected at the front end; this data is analyzed in detail in retail cloud and thus realizes retail IoT application.

B. Back end cloud management platform; provides functions such as remote facilities monitoring, operation system remote KVM, system recovery and protection. Improves system reliability, save facilities maintenance cost and overall operation and management cost.

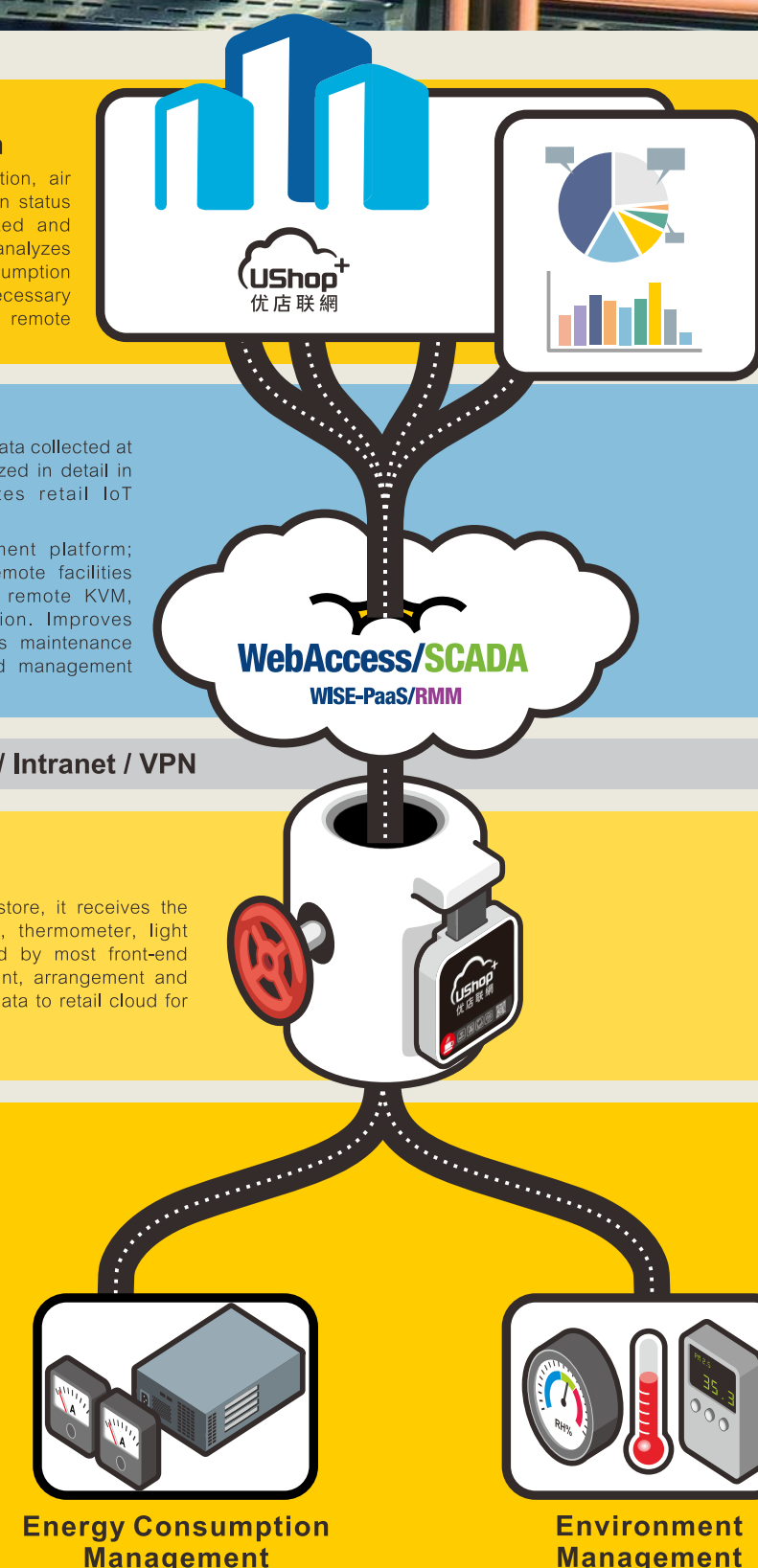
### Internet (3G/4G/WiFi) / Intranet / VPN

### UShop+ client server

Installed at back-end of each store, it receives the original data (electricity meter, thermometer, light sensor, etc.) which is provided by most front-end sensor and conducts initial count, arrangement and analysis and then uploads this data to retail cloud for aggregation.

### Environment energy monitoring

Collect real time environment and energy data through electricity digital meter, thermometer and light sensor. Once condition exceeds the limits, system will alarm to remind staff, even self-control automatically.





Successful Stories

Chain Stores



### Japanese Automotive Manufacturer

Committed to providing better service for its customers, the famous Japanese automotive brand built a brand new, bright, modern sales center with Advantech multi-media players to replace traditional commercial posters. The new e-signage demonstrates attractive advertisements, latest car information, and sales promotions via visual stimulation with excellent image quality and stable performance. The interactive signage not only delivers an engaging experience for customers when the sales introduces to them the new Hybrid models, but also builds a premier appreciation space and create considerable business opportunities.



### Taipei 101

One of the most famous spots in Taiwan, Taipei 101, is devoted to providing a world-class shopping experience and service to tourists from all over the world. To best present its professional image as an outstanding landmark, Taipei 101 has adopted Advantech's interactive multimedia system, providing various interactive e-services, such as a venue map, information display, and membership service. The high-resolution and true-flat screen features of Advantech's innovative all-in-one computers assist Taipei 101 with creating a more convenient and considerable shopping experience for its visitors.



### Scandinavian Furniture Brand

As a global homeware giant, the Scandinavian furniture brand has cultivated the Taiwanese market for 20 years. In order to provide better a customer experience, the brand chose Advantech's intelligent digital signage solution, which provides dynamic and stunning advertisements at store entrances, self-service kiosks, checkout terminals, and even restaurants to showcase latest product information and sales promotions. These interactive displays, more attractive than traditional posters, help increases the customers' interest in purchasing products.



### German Luggage Manufacturer

As one of Europe's leading manufacturer of premium travel and carry-on luggages, the German luggage brand installed a 2 x 2 TV wall behind the checkout counter at its flagship store in Taipei 101 for interactive promotion broadcasting. The easy-to-schedule features and navigational digital content are crucial to the flagship store. Advantech's multi-media player applies the digital signage management software, WebAccess/IMM, featuring cloud-based and real-time content and schedule management, to sufficiently fulfill the brand's needs. In addition, with its consistent quality and affordable price, this solution is a retailer's best choice.

### Taiwanese Soup Dumplings Restaurant Chain

Rated as one of the world's top 10 restaurants by "The New York Times" and awarded a Michelin star, the famous Xiaolongbao restaurant in Taiwan is so popular that customers are willing to wait in a long line just for the gourmet. To better serve its customers, the restaurant has adopted Advantech's intelligent queue management system and replaced traditional manual registration with electronic ticketing machines. Customers are divided into different queuing groups based on the number of people. Big queue displays at the restaurant entrance are used to show the real-time queue status and advertisements. With this system, the restaurant has increased its operational efficiency and service quality.



### Taiwanese Hypermarket Chain

As a big hypermarket chain in Asian, the Taiwanese hypermarket chain faces the impact of e-commerce, and rising cost of labor and rent. By introducing Advantech's WISEPaaS/RMM cloud management platform and intelligent retail solutions to improve traditional operational procedures, the Taiwanese hypermarket chain has successfully enhanced the consumer shopping experience and saved costs on IT equipment management. It also adopted Advantech's compact and stylish all-in-one touch computers (UTC series) as price checking machines and cooperated with Advantech to develop a new generation all-in-one POS system to meet the high-volume checkout needs of the hypermarket chain.





Recommended Products

Intelligent Video Analytics

Remote Management / Digital Signage Player

WebAccess/IVS

**Forbidden Zone**  
Alarms when intrusions occur in one or more predefined forbidden zones.

**Demographics**  
Apply to retail, finance, and hospitality. Identify individuals by age and gender.

**People Counting**  
Calculates when people are passing through a certain area by counting faces.

**Camera Tamper**  
Trigger alarms when the camera lens are covered, sprayed, defocused, or the camera is repositioned.

**Motion Detection**  
Monitors the amount of motion and alerts when something changes.

**Optical Self Diagnostic**  
Trigger alarms when high noise video, excess/insufficient lighting or video signal losses occur.

**Facial Surveillance & Black List**  
Scan crowds and automatically identify people by their faces that help match faces in a crowd with names on a watch list.

**Object Counting**  
Counting of individuals and / or vehicles for separate moving objects.

**Crowd Detection**  
Crowd density status of people in a specific region can be detected as over capacity indicator.

**Flexible Event Action Plan**  
Flexible event action plans including alarm signal, snapshot, email/SMS notification, PTZ control, video record, file, execution and more.

**Quick Search for Event Logs**  
Quick search for event logs including login status, remote connection status, system events, camera status, motion/sensor detection, and more.

**Multiple Backup Mode**  
Backup recorded data to hard disk, CD, DVD, Disk Array and USB without stopping video recording. Automatically calculate storage space required for backing up recorded data.

**Powerful IE Browser Monitoring**  
Monitor historical recorded video data and remote control for live view video, set up, and client system status monitoring through IE browser.

**Dwell Time & Loitering**  
Ensure safe environments for tracking suspicious persons.

**License Plate Recognition**  
Detects and recognizes vehicle license plates upon motion or I/O trigger.

**Parking Vacancy**  
Detects if defined parking spaces are occupied or not by scene analysis.

**Flexible and Diverse Recording Modes**  
Supports diverse recording modes and schedules for each individual camera.

Description	Industrial 4U Hybrid Intelligent Video Surveillance System	Compact Size Hybrid Intelligent Video Surveillance System	Compact Size Fanless Intelligent Video System with RFID	Compact Size Intelligent Video Analysis System with PoE Switch	High Performance Video Recorder with PoE Switch
					
Features	<ul style="list-style-type: none"><li>• Supports up to 32 analog/32 D1 IP/8 megapixel IP cameras with Hybrid structure</li><li>• Modularized SDK ready for CM and AP software integration</li><li>• Default 3TB HDD for 24-ch of recording for 30 Days(4CIF resolution @ 15FPS)</li><li>• Free bundled and optional intelligent video analytic software</li></ul>	<ul style="list-style-type: none"><li>• Supports up to 8 analog,8 D1 IP or 4 megapixel IP cameras with hybrid structure</li><li>• Free bundled and optional intelligent video analytic software</li><li>• Free bundled CMS or SDK for 3rd party CMS or AP software integration</li><li>• Supports up to 2 2.5" HDD</li></ul>	<ul style="list-style-type: none"><li>• All-in-One x86-based intelligent RFID &amp; Video controller with Intel Core™ i7 Dual Core 1.7 GHz processors, flexible I/O, and dual display</li><li>• Free-bundled configurable demo software and SDK with feature-rich protocol for RFID applications</li><li>• Supports Advantech intelligent video surveillance software, PowerView, and multiple intelligent video analytic software</li><li>• Industrial grade device for harsh environment applications</li></ul>	<ul style="list-style-type: none"><li>• Intel® Celeron® J1900 Quad Core 2.0 GHz SoC</li><li>• DDR3L 1333MHz 4GB</li><li>• Supports 1 x Realtek GbE</li><li>• 4 x PoE ports to support IP camera</li><li>• 1 x removable 2.5" SATA HDD bay and 1 x 32G mSATA</li><li>• Supports dual independent displays: VGA and HDMI</li><li>• 4 x dry contact inputs and 2 x relay outputs</li><li>• 1 x serial port (RS-232/422/485)</li><li>• 1 x USB 3.0 and 2 x USB 2.0</li></ul>	<ul style="list-style-type: none"><li>• Built in high power 802.3at PoE Switch (16/24 ports)</li><li>• 10/100/1000Base-T and SFP combo uplink port</li><li>• Supports Intel 4th Gen Core™ i processor (LGA1150) with - Intel Q87 chipset</li><li>• Supports two 204-pin SO-DIMM up to 16GB DDR3 1333/1600 SDRAM</li><li>• Supports four 3.5" SATA HDD up to 16TB storage</li><li>• One 2.5" SATA HDD for OS storage</li><li>• Features USB 3.0 &amp; USB 2.0</li><li>• Supports triple display of HDMI*2/VGA</li></ul>
Model Name	ACP-4000VS	AIMC-3200VS	ARK-RI2150L	NVS-300VS	NVS-500VS
Max IP Camera Support	32	8	4	4	16/24
Max. Analog Camera Support	32	8	-	0	0
Max. Resolution Support	D1@480fps / 1080p@160 fps	D1@240fps/1080p@60fps	1080p@60fps	4ch (60FPS@D1)	16ch (240FPS@D1)/24ch (360FPS@ D1)
Compression Type	H.264(editors note: single SPAN all 5 columns)				
Max. Number of HDD	3 * 3.5" HDD	2 * 2.5" HDD	64G mSATA	1* 2.5" SATA HDD (32G included)	4* 3.5" SATA HDD(Up to 16TB) 1* 2.5" SATA HDD(500G included)
CPU	Intel Core i7-3770 (3.4GHz)	Intel Core i5-3550S	Intel ULV Core i7 3517UE	Intel® Celeron® J1900 Quad Core 2.0 GHz SoC	Intel Core i7
Operating System	Windows 7 Embedded (editors note: single SPAN all 5 columns)				
Display	VGA + DVI Dual Display	VGA + DVI Dual Display	VGA + HDMI/DP Dual Display	VGA + DVI Dual Display	HDMI X 2 +VGA X 1 (Multi-Display)
Dimension (W x H x D)	482 x 177 x 479 mm	232 x 90 x 232 mm	264.5 x 75.1 x 133.0 mm	252 x 184 x 50 mm	430x540x44.5mm
Embedded IVA	Supported				

WISE-PaaS/RMM

A Simple yet Powerful Way to Manage Your Devices

Centralized Management

Superior remote monitoring and management ability of IoT devices

High Availability

Support redundant servers syncing with main server assures service continuity

Sensor/Device Connectivity

RESTful APIs, SDKs, and MQTT protocols establish cross-platform communications between devices

System Monitoring

**Device Monitoring**  
Software status, internet connection, CPU temperature, fan speed and voltage.

**Automatic Alerts by Email/SMS**  
Administrators can get prompt notifications sent to their email inboxes or cell phones.

**Dashboard Builder**  
Live and statistical device data visualization via various widgets

Remote Control

**Remote KVM**  
Quick access to remotely located, embedded devices for device diagnostics and repair.

**Power On/Off**  
Sets the power on /off schedule for remotely located devices.

Embedded Security

**System Recovery**  
• Hot Backup  
• Scheduled Backup  
• One-Click Recovery  
Powered by Acronis

**System Protection**  
• White List Protection  
• Warnings of any unauthorized activities  
Powered by Intel Security

**RESTful API**  
Standard WEB service interface for cross-platform integration

**SDK**  
Software development kit and customized handler for vertical applications

Product	UBC-DS31	DS-063	DS-370	DS-570	DS-862
					
Processor	Freescall i.MX6 Dual Cortex-A9	Intel® Atom™ D2550	Intel® Celeron J1900	Intel® Celeron N2930/ Intel® Celeron J1900	Intel® Core™ i7-3555LE/ Intel® Core™ i3-3217UE/ Intel® Celeron 1020E
PCH Chipset	-	Intel® NM10	-	Integrated in CPU	Intel® QM77
Display Chipset	CPU Integrated	Intel® GMA 3650	CPU Integrated	NVIDIA GeForce GT730M	AMD Radeon E6460
Resolution	HDMI: up to 1920 x 1080 @ 60 Hz VGA: up to 1920 x 1080 @ 60 Hz	HDMI: up to 1920 x 1080 @ 60 Hz VGA: up to 1920 x 1080 @ 60 Hz	HDMI: up to 1920 x 1080 @ 60 Hz VGA: up to 1920 x 1080 @ 60 Hz DP++: up to 1920 x 1080 @ 60 Hz	VGA: up to 2048 x 1536 @ 60 Hz HDMI: up to 3480 x 2160 @ 30 Hz DP++: up to 3480 x 2160 @ 30 Hz	DP: up to 3480 x 2160 @ 30 Hz
Memory	On-board DDR3 1066MHz 1GB	1 x DDR3 800/1066MHz	1 x DDR3L 1333MHz	2 x DDR3L 1066MHz	2 x DDR3L 1066/1333/1600MHz
Storage	4GB eMMC NAND Flash; 1x SD card (optional)	1 x 2.5-inch SATA III HDD	1 x 2.5-inch SATA II HDD	1 x 2.5-inch SATA II HDD/ SSD 1x mSATA (via miniPCIe)	1 x 2.5-inch SATA II HDD
I/O Interface	1 x HDMI / 1 X VGA / 1 x USB2.0 / 1 x UART / 1 x Line-out / 1 x SD slot / 1 x Reset button	1 x HDMI / 1 X VGA 4 x USB2.0 / 1 x GigaLan(RJ-45) 1 x COM(RS-232) 1 x Line-out / 1 x Mic-in	1 x HDMI / 1 X VGA 1 x DP++ / 1 x USB3.0 3 x USB2.0 / 2 x GigaLan(RJ-45) 2 x COM(RS-232)/ Line-Out / 1 x Mic-in	2 x HDMI / 1 x VGA / 1 x DP++ / 1 x USB3.0 3 x GigaLan(RJ-45) / 2 x COM (2x RS-232 or *1x RS-232 & RS-285/ RS-422 RS-232) / 1 x Mic-in / 1 x SPDIF/Line-out (support Jack Sense)	4 x DP / 4 x USB3.0(compliant) / 1 x GigaLan(RJ-45) / 1 x COM(RS-232) / 1 x Line-out(Support Jack Sense)
Expansion	1x MiniPCIe (Internal) 1x SIM slot (Internal)	1 x MiniPCIe(Internal)	2 x MiniPCIe(Internal)	2 x MiniPCIe(Internal) 1x SIM slot (Internal)	1 x MiniPCIe(Internal)
Power	DC 12V input, 36W	DC 19V input, 65W	DC 19V input, 65W	DC 19V input, 65W	DC 19V input, 65W
Size (W x H x D)	191 x 129 x 30 mm	180 x 190 x 19 mm	204 x 118.2 x 44.2 mm	220 x 150 x 44.2 mm	250 x 190 x 35 mm




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Recommended Products


Intelligent POS System

		ABOX	E-POS	Chameleon
Product				
Model Name		ABOX-123	EP-5500	CM-5500
Color		Red/Black	Black	Black/Yellow/White/Red
System	CPU	Intel Celeron J1900 (quad-core)	Intel® Celeron® J1900 Processor	Intel® Celeron® J1900 / Haswell i3/i5/i7 Processor
	Cache Memory	2MB	2MB	2MB
	System Memory	Maximum up to 8GB	Maximum up to 4GB (SO-DIMM 2 x 204-pin DDRIII 1333)	Maximum up to 4GB (SO-DIMM 2 x 204-pin DDRIII 1333)
Display	Resolution	-	15" VGA TFT LCD (1024 x 768)	15" VGA TFT LCD (1024 x 768)
	Brightness	-	250 cd/m²	250 cd/m²
	Bezel-Free	-	Yes	No
	Front Panel Protection	-	Ip65	Ip65
	Touch	-	5-wire Resistive Touch	5-wire Resistive Touch
Storage	HDD Driver	1 x 2.5" SATA HDD bay	1 x 2.5" SATA HDD bay built-in	2 x 2.5" SATA HDD bay
	SSD (optional)	-	-	Yes
I/O Interface	Serial Port	COM1(RS-232/422/485), COM2 (RS-232)	COM1, COM2, COM5, COM6(Pole-mount VFD)	COM1, COM 2
	USB Port	2 x USB 3.0 / 4 x USB 2.0	3 x USB 2.0, 1 x USB 3.0	USB 2.0 x 5, USB 3.0 x 1
	Output	1 x VGA & HDMI	1 x VGA port (D-Sub15) (max resolution is 1024x768)	1x VGA, HDMI and DVI
	Audio	1 x Line-out & Mic-in	Line-out (Integrated stereo 2W + 2W speakers)	Line-out, Plug ON Disable SPK, 1x Mic-in (Integrated stereo 2W + 2W speakers)
	Ethernet	1 x RJ-45 Gigabit Ethernet (10/100/1000)	1 x RJ-45 Gigabit Ethernet (10/100/1000)	1 x RJ-45 Gigabit Ethernet (10/100/1000)
	Cash Drawer	1 x RJ-11 (12V connector control)	RJ-11 (Adjustable 12V/24V, 1 connector control 2 cash drawer)	RJ-11 (Adjustable 12V/24V, 1 connector control 2 cash drawer)
Modular Option	Secondary Display	VFD / 10.1" /15" TFT LCD Display	VFD, 10.1" TFT LCD Display	VFD / 10.1" /15" TFT LCD Display
	Peripherals	-	MSR only / MSR+IC Card Reader MSR+iButton / Fingerprint / RFID / WIFI+IC Card Reader	MSR/ MSR+IC Card Reader MSR+iButton/Fingerprint/RFID / WIFI Fingerprint/RFID+IC Card Reader
OS		POSReady 7, Windows Embedded 8.1 Industry, Windows 10 IoT	POSReady 7, Windows Embedded 7 Pro, Windows Embedded Industry Pro Retail 8.1, Windows 10 and Linux	POSReady 7, Embedded Windows 7 Pro, Embedded Windows 8 Pro, Windows 10 and Linux Kernel 3.13 or above

Intelligent POS System

		W-POS		UTC-300P	
Product					
Model Name		WP-5530	WP-7530	UTC-315P	UTC-318P
Color		Black	Black	Black/White	Black/White
System	CPU	Intel® BayTrail-D quad-core J1900 / Haswell Core i7 / i5 / i3 / Pentium Processor	Intel® Atom™ J1900 / Ivy Bridge Celeron/ i3/ i5/ i7 Processor	Intel® BayTrail J1900 / Haswell Core i5-4300U Processor	Intel® BayTrail J1900 / Haswell Core i5-4300U Processor
	Cache Memory	2MB	1MB	Maximum up to 3MB	Maximum up to 3MB
	System Memory	Maximum up to 8GB (SO-DIMM 2 x 204-pin DDRIII 1333/1600)	Maximum up to 8GB (SO-DIMM 2 x 204-pin DDRIII 1333/1600)	Maximum up to 8GB DDR3L	Maximum up to 8GB DDR3L
Display	Resolution	15" VGA TFT LCD (1024 x 768)	15" VGA TFT LCD (1024 x 768)	15.6" VGA TFT LCD (1366 x 768)	18.5" VGA TFT LCD (1366 x 768)
	Brightness	250 cd/m²	250 cd/m²	250 cd/m²	250 cd/m²
	Bezel-Free	Yes	Yes	Yes	Yes
	Front Panel Protection	Ip65	Ip65	Ip65	Ip65
	Touch	P-CAP Touch	5-wire Resistive / P-CAP Touch	5-wire Resistive / P-CAP Touch	5-wire Resistive / P-CAP Touch
Storage	HDD Driver	1 x 2.5" SATA HDD bay	1 x 2.5" SATA HDD bay	1 x 2.5 internal SATA HDD bay	1 x 2.5 internal SATA HDD bay
	SSD (optional)	Yes	Yes	Yes	Yes
I/O Interface	Serial Port	COM1, COM2, COM3	COM1, COM2, COM5	1 x RS-232, 1 x RS-232/422/485	1 x RS-232, 1 x RS-232/422/485
	USB Port	USB 2.0 x 3, USB 3.0 x 2, 12V Power USB x 1	USB 2.0 x 6 / USB 2.0 x 4 & USB 3.0 x 2	USB 2.0 x 5 , USB 3.0 x 1	USB 2.0 x 5 , USB 3.0 x 1
	Output	1 x VGA, HDMI and DVI-I	1 x VGA & HDMI	1 x VGA	1 x VGA & HDMI
	Audio	1 x Line-out, 1 x Mic-in	1 x Line out (integrated stereo 2W + 2W speakers)	1 x Line out; 1 x Mic in	1 x Line out; 1 x Mic in
	Ethernet	1 x RJ-45 Gigabit Ethernet (10/100/1000)	1 x RJ-45 Gigabit Ethernet (10/100/1000)	2 x RJ-45 Gigabit Ethernet (10/100/1000)	1 x RJ-45 Gigabit Ethernet (10/100/1000)
	Cash Drawer	RJ-11 (Adjustable 12V/24V, 1 connector control 2 cash drawer)	RJ-11 (Adjustable 12V/24V, 1 connector control 2 cash drawer)	RJ-11 (Adjustable 12V/24V, 1 connector control 2 cash drawer)	RJ-11 (Adjustable 12V/24V, 1 connector control 2 cash drawer)
Modular Option	Secondary Display	Embedded VFD / 10.1" /15" TFT LCD Display	VFD / 10.1" /15" TFT LCD Display	VFD / 10.1" /15" TFT LCD Display	VFD / 10.1" /15" TFT LCD Display
	Peripherals	MSR only MSR+IC Card Reader / iButton / Fingerprint / RFID / WIFI	MSR/ iButton/ Fingerprint/ IC Card Reader/ RFID / WIFI	5M Camera, MSR, RFID, IC Card Reader, 1D/2D Barcode Scanner	5M Camera, MSR, RFID, IC Card Reader, 1D/2D Barcode Scanner
OS		Windows 7 Pro Embedded, POSReady 7, Windows 8 Pro Embedded, Windows 10, Linux Kernel 3.13 or above	POSReady 7, Windows 7 Pro, Win Embedded 8.1 Industry Pro	POSReady 7, Win Embedded 8.1 Industry Pro, Win Embedded Standard 8, Win Embedded Standard 7P, Windows 10, Android 4.4, and Linux	POSReady 7, Win Embedded 8.1 Industry Pro, Win Embedded Standard 8, Win Embedded Standard 7P, Windows 10, Android 4.4, and Linux




MPOS-30						
	Main board	Processor	Mediatek MT6735 Coretex-A53	POS Periperal	Camera	5.0MP
		System Memory	2GB		MSR	Built-in
		Internal Storage	16GB		IC Card Reader	Built-in
		External Storage	Micro SD		1D/2D Barcode Scanner	Add-on (UART)
	Display	Display	5"	Function Keys (Physical)	BACK, HOME, MENU	Y
		Resolution	1280x720		SCAN	Y
		Touch	P-CAP multi-Touch		Power	Y
	Connectivity	WLAN	802.11 a/b/g/n Dual Band		Dimemsn & Power	iButton
		BT	4.0	WxDxH		84x163x16 mm
		NFC	Y	Weight		Under 250g
		Micro USB 2.0	Y	Operation System	Battery	3,000mAh / removable
		UART 3.3V, 115.2K	Y		OS	Android 5.1
	Wirelss Communication	4G (LTE)	Y			
		3G (WCDMA)	Y			
		SIM	Micro SIM			
		SAM	Y			

MPOS-50						
	Main board	Processor	Intel Atom X5-8300	POS Periperal	Camera	5.0MP
		System Memory	2GB		MSR	Built-in
		Internal Storage	32GB / 64GB		IC Card Reader	Built-in
		External Storage	Micro SD		1D/2D Barcode Scanner	Built-in
	Display	Display	10.1"	Function Keys (Physical)	BACK, HOME, MENU	NA
		Resolution	800x1280		SCAN	Y
		Touch	P-CAP multi-touch		Power	Y
	Connectivity	WLAN	802.11 a/b/g/n Dual Band		iButton	Y
		BT	4.0	Dimemsn & Power	WxDxH	275x175x17.5 mm
		NFC	Y		Weight	Under 750g
		Micro USB 2.0	Y		Battery	6,000mAh / Embedded
		UART 3.3V, 115.2K	Y	Operation System	OS	Windows 8.1
	Wirelss Communication	4G (LTE)	NA			
		3G (WCDMA)	Optional			
		SIM	Optional			
		SAM	Optional			










Recommended Products













Ubiquitous Touch Computer

Product		UTC-510	UTC-515		UTC-520	
						
Description		10.1" Ubiquitous Touch Computer	15.6" Ubiquitous Touch Computer		21.5" Ubiquitous Touch Computer	
Model name		UTC-510D	UTC-515D	UTC-515E	UTC-520D	UTC-520E
System	CPU	Intel ® Atom E3825	Intel ® Celeron J1900	Intel® Core™ i5-4300U 1.9GHz	Intel® Celeron J1900	Intel® Core™ i5-4300U 1.9GHz
	Cache Memory	1MB	2MB	3MB	2MB	3MB
	System Memory	1 x SO-DIMM DDR3L 1066 MHz, up to 8 GB	1 x SO-DIMM DDR3L 1333 MHz up to 8 GB	1 x SO-DIMM DDR3L 1333 / 1600 MHz up to 8 GB	1 x SO-DIMM DDR3L 1333 MHz up to 8 GB	1 x SO-DIMM DDR3L 1333 / 1600 MHz up to 8 GB
	HDD	1 x 2.5 internal SATA HDD bay	1 x 2.5 internal SATA HDD bay		1 x 2.5 internal SATA HDD bay	
Display	Size	10.1" TFT LCD	15.6" TFT LCD		21.5" TFT LCD	
	Max Resolution	1280 x 800	1366 x 768		1920 x 1080	
Touch Screen	Type	Projected Capacitive	Projected Capacitive (Flat Glass)		Projected Capacitive (Flat Glass)	
		Glass Panel	Resistive 5 wires (Flat Glass)		Resistive 5 wires (Flat Glass)	
		-	Glass Panel (No touch function)		Glass Panel (No touch function)	
I/O Interface	USB Port	1 x USB 2.0 1 x USB 3.0	3 x USB 2.0 1 x USB 3.0	2 x USB 2.0 2 x USB 3.0	3 x USB 2.0 1 x USB 3.0	2 x USB 2.0 2 x USB 3.0
	COM Port	2 x RS-232 COM	2 x RS-232			
	HDMI Port	-	1			
	Extension Port	1 Half size MiniPCIe/1 Half size mSATA	Full-size MiniPCIe/mSATA			
Network	LAN	1 x Gigabit Ethernet ports	2 x Gigabit Ethernet ports			
OS		Windows Embedded 7, Windows Embedded 8, Linux Ubuntu 14.04, Android 4.4.2	Windows Embedded 7, Windows Embedded 8, Linux Ubuntu 14.04, Android 4.4.2		Windows Embedded 7, Windows Embedded 8, Linux Ubuntu 14.04, Android 4.4.2	

Ubiquitous Touch Computer

Product		UTC-532			UTC-542	UTC-W101BF
						
Description		32" Ubiquitous Touch Computer			42" Ubiquitous Touch Computer	10.1" Ubiquitous Touch Computer
Model name		UTC-532C	UTC-532D	UTC-532E	UTC-542E	UTC-W101BF
System	CPU	Intel ® Core ™ i7 3517UE 1.7GHz	Intel ® Celeron J1900	Intel ® Core ™ i5-4300U 1.9GHz	Intel ® Core ™ i5-4300U	Intel ® Atom ™ CedarTrail N2800 1.86GHz
	Cache Memory	4 MB	2MB	3MB	3MB	1MB
	System Memory	1 x SO-DIMM DDR3/DDR3L 1333/1600 MHz up to 8 GB	1 x SO-DIMM DDR3L 1333 MHz up to 8 GB	1 x SO-DIMM DDR3L 1333 / 1600 MHz up to 8 GB	1 x SO-DIMM DDR3L 1333 /1600 MHz, up to 8 GB	1 x DDR3 1067 204 pin SO-DIMM up to 4GB
	HDD	1 x 2.5 internal SATA HDD bay			1 x 2.5 internal SATA HDD bay	1 x Mini SATA
Display	Size	32" TFT LCD			42" TFT LCD	10.1" TFT LCD
	Max Resolution	1920 x 1080			1920 x 1080	1024 x 600
Touch Screen	Type	Projected Capacitive (Flat Glass)			Glass Panel (No touch function)	Projected Capacitive (Flat Glass)
		-				
		Glass Panel (No touch function)				
I/O Interface	USB Port	2 x USB 2.0 2 x USB 3.0	3 x USB 2.0 1 x USB 3.0	2 x USB 2.0 2 x USB 3.0	2 x USB 2.0 2 x USB 3.0	4 x USB2.0
	COM Port	2 x RS-232				2 x RS-232 COM
	HDMI Port	1				-
	Extension Port	Full-size MiniPCIe/mSATA				Mini PCIe x 1
Network	LAN	2 x Gigabit Ethernet ports				1 x Gigabit Ethernet ports
OS		Windows XP/ XPE/ Embedded 7 Embedded Windows 8	Windows Embedded 7, Windows Embedded 8, Linux Ubuntu 14.04			Windows7/WES7

		UTC-312	UTC-315		UTC-318		UTC-322
Product							
Description		11.6" Ubiquitous Touch Computer	15.6" Ubiquitous Touch Computer		18.5" Ubiquitous Touch Computer		21.5" Ubiquitous Touch Computer
Model name		UTC-312D	UTC-315D	UTC-315E	UTC-318D	UTC-318E	UTC-322D
System	CPU	Intel ® Celeron J1900	Intel ® BayTrail J1900	Intel ® Core™ i5-4300U 1.9 GHz	Intel ® Celeron J1900	Intel Core ® i5-4300U 1.9 GHz	Intel ® Celeron J1900
	Cache Memory	2MB	2MB	3MB	2MB	3MB	2MB
	System Memory	1 x SO-DIMM DDR3L 1333 MHz up to 8 GB	1 x SO-DIMM DDR3L 1333 MHz up to 8 GB	1 x SO-DIMM DDR3L 1333 MHz up to 8 GB	1 x SO-DIMM DDR3L 1333 MHz up to 8 GB	1 x SO-DIMM DDR3L 1333 / 1600 MHz up to 8 GB	1 x SO-DIMM DDR3L 1333 MHz up to 8 GB
	HDD	1 x 2.5" SATA SSD or mSATA	1 x 2.5 internal SATA HDD bay		1 x 2.5 internal SATA HDD bay		1 x 2.5" SATA HDD/SSD
Display	Size	11.6" TFT LCD	15.6" TFT LCD		18.5" TFT LCD		21.5" TFT LCD
	Max Resolution	1366 x 768	1366 x 768		1366 x 768		1920 x 1080
Touch Screen	Type	Projected Capacitive (Flat Glass)	Projected Capacitive (Flat Glass)				
		-	Resistive 5 wires (Flat Glass)				
I/O Interface	USB Port	2 x USB 2.0 / 1 x USB 3.0	5 x USB 2.0 , 1 x USB 3.0		5 x USB 2.0 , 1 x USB 3.0		2 x USB 2.0 / 1 x USB 3.0
	COM Port	1	1 x RS-232 COM , 1 x RS-232 / 422 / 485		1 x RS-232 COM , 1 x RS-232 / 422 / 485		1
	HDMI Port	-	1		1		-
	Extension Port	Mini PCIe x 2	Full-size MiniPCIe/mSATA		Full-size MiniPCIe/mSATA		Mini PCIe x 2
Network	LAN	1 x Gigabit Ethernet ports (w/ PoE)	2 x Gigabit Ethernet ports		2 x Gigabit Ethernet ports		1 x Gigabit Ethernet ports
OS		Windows Embedded 7, Windows Embedded 8, Linux Ubuntu 14.04, Android 4.4.2					

Product		5M Camera Module	Magnetic Stripe Card Reader	NFC/RFID Reader Module	Smart Card Reader Module
Model	UTC-300				
	UTC-500				
Description		<ul style="list-style-type: none"><li>• Auto focusing on 40-80 cm</li><li>• Video format: YUY2, MJPEG</li></ul>	<ul style="list-style-type: none"><li>• Card standard : ANSI, ISO, ABA</li><li>• Read speed : 1-60 IPS</li><li>• Head life : 1,000,000 times</li></ul>	<ul style="list-style-type: none"><li>• 13.56 MHz frequency</li><li>• Read mode : ISO 15693 / 14443A / B / 18000-3 / Felica</li><li>• Reading range : 3 +/- 1 cm</li></ul>	<ul style="list-style-type: none"><li>• User card friction type (ID-1), 200,000 cycles</li><li>• SAM card: 5000 insertions</li><li>• Compliant CPU card and memory card</li></ul>
Product		Barcode Scanner Module		iBeacon Module	Multi-functional Floor Stand
Model	UTC-300			-	
	UTC-500				
Description		1D/2D barcode scanner		<ul style="list-style-type: none"><li>• Type : Bluetooth 4.0 Low Energy</li><li>• Sensitivity : -93 dBm</li><li>• Effective Range : Over 60 meters</li></ul>	<ul style="list-style-type: none"><li>• Compact design and easy installation</li><li>• Optional thermal printer bracket</li></ul>