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, hypermarkets, 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 "altruisic 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.
Customer Engagement
Seamless, omni-channel customer experience across all channels.

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 Intelligence
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.

WISE-PaaS Alliance

Energy Management

Intelligent Video Analysis

Self-Service System

Mobile POS

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, supermarkets, 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.
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.

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.

iBeacon Features In-Store Perks  P16
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.

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.

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 queueing 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

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**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.

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**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.

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**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.
Interactive Multimedia Systems

**Ushop Cloud Management Platform**

Interface between centralized management and multi-media content editing. Through a remote network function, broadcasting content is delivered to each store's announcement. Powerful multi-media management such as group delivery, timed automatic displays, and display remote check are also available. Various data analysis reports can be provided according to the applied software.

**Retail Cloud**

A. An aggregation of retail big data collected from the front end, in which data is analyzed in detail

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

**Retail**

- O2O Terminal
- Wayfinding Kiosk
- Interactive TV wall

**Hospitality**

- e-Menu
- Digital Signage Application

B. Compiles various interactive multi-media content and delivers that information to each store's facility specific to that store's
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.
Interactive Multimedia Systems

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 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/MM,” 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/dispetching 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 stylish 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 customer 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
• Real-time Queuing State Checking
• Easy Reservation Management
• 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.
UShop Cloud management platform
Interface of centralized management and multi-media content editing. Content for broadcasting is delivered to the broadcasting box in each store through remote network function and powerful multi-media managements such as group delivery, auto display.

Retail cloud
A. The aggregation of retail big data collected at the front end; this data is analyzed in detail in retail cloud.

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

Self-Service
Passenger Self-Service Kiosk
Hotel Check-in Kiosk
Self-Checkout System

B. Keeps various interactive multi-media content; content is delivered to facilities of each store based on the setting.

Queuing System
Customer Survey System
iBeacon Promotion
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 or 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 e-commerce 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.
Self-Service System

Self-Check-In (Hotel and Transportation Hub)

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 segments to fulfill diverse applications. Better yet, Advantech’s Intelligent POS system is designed to bring a one-step shop environment for our customers. 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. IP64 Front Panel Protection
3. NFC Wireless Reader
4. Security Pin Keyboard
5. Release Button

Benefits:
- Integrated Security Device 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 Button 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 Easy-to-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 POS

Intelligent Checkout System

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

Features:
- Innovative Easy-Change Front Bezel
- Customizable Back Cover
- Modular MSR Card Reader
- Optional VFD/10.1”/18” Secondary Display

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

UTC-300P
16:9 Bezel-Free Widescreen POS System

Features:
- 16:9 Widescreen Touch Display
- 10.1” Secondary Display
- MSR
- RFID
- 1D/2D Barcode Scanner
- SM Camera

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

E-POS
Cost-effective POS System with Easy HDD Removal Design

Features:
- Unique Easy HDD Removal Design
- Support VFD & 10.1” Secondary Display
- Support Wall/Mounting Installation

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

ABOX-123
Full HD Fanless POS Box

Features:
- Power Button
- USB 2.0 Port
- VGA Port
- HDMI Port
- COM Port x 3

Benefits:
- Integrated Security Device for Data Protection
- Wireless Connection Enable Mobility Payment
- Easy Replacement of Peripheral for Quick Maintenance
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, saves facilities maintenance cost and overall operation and management cost.

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.

Video Analysis / Loss Prevention
Passenger Data Analysis
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, Staffing 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, CO2/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.
Energy Management System

**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.
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.

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/MM, 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.
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 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.

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 Kaoliangbao restaurant in Taiwan is so popular that customers are willing to wait in a long line just for the gourmand. 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 Asia, the Taiwanese hypermarket chain faces the impact of e-commerce, and rising cost of labor and rent. By introducing Advantech’s WISEPOS/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

#### WebAccess/IVS
- **Forbidden Zone**
  - Alarms when intruders occur in one or more pre-defined forbidden zones.
- **Camera Tamper**
  - Trigger alarms when the camera lens is covered, sprayed, defocused, or the camera is repositioned.
- **Facial Surveillance & Black List**
  - Scan crowds automatically and identify individuals by their faces that match faces on a watch list.
- **Flexible Event Action Plan**
  - Flexible action plans including alarm signal, snapshot, email/SMS notification, PTZ control, video record, file, evacuation, and more.
- **Powerful IE Browser Monitoring**
  - Monitor recorded video data and remote control for live view, video, set up, and client system status monitoring through IE browser.
- **Dwell Time & Loitering**
  - Ensures safe environments for tracking suspicious events.
- **Parking Vacancy**
  - Detects if defined parking spaces are occupied or not by license analysis.

#### Demography
- **Demographics**
  - Apply to retail, finance, and hospitality to identify individuals by gender and age.

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

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

#### Quick Search for Event Logs
- **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
- **Multiple Backup Mode**
  - Backup recorded data to hard disk, CD, DVC, USB array, and USB without stopping video recording. Automatically calculates storage space required for backing up recorded data.

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

### Description

<table>
<thead>
<tr>
<th>Description</th>
<th>Industrial 4U Hybrid Intelligent Video Surveillance System</th>
<th>Compact Size Hybrid Intelligent Video Surveillance System</th>
<th>Compact Size Fanless Intelligent Video Surveillance System with PoE Switch</th>
<th>Compact Size Fanless Intelligent Video Analysis System with PoE Switch</th>
<th>High Performance Video Recorder with PoE Switch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Features</td>
<td>Supports up to 32 analog/32 D1 IP8 megapixel IP cameras with hybrid structure</td>
<td>Supports up to 8 analog 5D1 IP or 4 megapixel IP cameras with hybrid structure</td>
<td>All-in-One x 46-based intelligent RFID &amp; Video controller with Intel Core™ i7 Dual Core 1.7 GHz processor, flexible I/O, and dual display</td>
<td>Intel® Core™ i7 Processor</td>
<td>Built-in high performance 862.5at PoE Switch (16/24 ports)</td>
</tr>
<tr>
<td>Model Name</td>
<td>ACP-4000VS</td>
<td>AIMC-3200VS</td>
<td>ARK-R2150L</td>
<td>NVS-3000VS</td>
<td>NVS-5000VS</td>
</tr>
<tr>
<td>Max. 16/16 Port Support</td>
<td>32</td>
<td>8</td>
<td>4</td>
<td>4</td>
<td>1/2</td>
</tr>
<tr>
<td>Max. Analog Camera Support</td>
<td>32</td>
<td>8</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Max. Resolution Support</td>
<td>D1 x 480/640/1024/1600 fps</td>
<td>D1@240fps/1024x640 x 60fps</td>
<td>1080@60fps</td>
<td>4K (4KPS) @ Q1</td>
<td>1080@240fps/30fps/60fps</td>
</tr>
<tr>
<td>Compression Type</td>
<td>H.264 (editors note: single SPAN all columns)</td>
<td>H.264 (editors note: single SPAN all columns)</td>
<td>H.264 (editors note: single SPAN all columns)</td>
<td>H.264 (editors note: single SPAN all columns)</td>
<td>H.264 (editors note: single SPAN all columns)</td>
</tr>
<tr>
<td>Max. Number of HDD</td>
<td>3 x 3.5&quot; HDD</td>
<td>2 x 2.5&quot; HDD</td>
<td>Intel Core i7-3770 (3.4GHz)</td>
<td>Intel Core i7</td>
<td>Intel Core i7</td>
</tr>
<tr>
<td>CPU</td>
<td>Intel Core i7-3770 (3.4GHz)</td>
<td>Intel Core i5-3550S</td>
<td>Intel ULV Core i7-3517UE</td>
<td>Intel Core i7-3550U</td>
<td>Intel Core i7</td>
</tr>
<tr>
<td>Operating System</td>
<td>Windows 7 Embedded (editors note: single SPAN all columns)</td>
<td>Windows 7 Embedded (editors note: single SPAN all columns)</td>
<td>Windows 7 Embedded (editors note: single SPAN all columns)</td>
<td>Windows 7 Embedded (editors note: single SPAN all columns)</td>
<td>Windows 7 Embedded (editors note: single SPAN all columns)</td>
</tr>
<tr>
<td>Display</td>
<td>VGA + DVI Dual Display</td>
<td>VGA + DVI Dual Display</td>
<td>VGA + HDMI/DP Dual Display</td>
<td>VGA + DVI Dual Display</td>
<td>HDMI X 2-VGA X 1 (Multi-Display)</td>
</tr>
<tr>
<td>Dimension (W x H x D)</td>
<td>482 x 177 x 479 mm</td>
<td>232 x 90 x 232 mm</td>
<td>264.5 x 75.1 x 130.0 mm</td>
<td>252 x 235 x 50 mm</td>
<td>430x54x44.5mm</td>
</tr>
<tr>
<td>Embedded IVA</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
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</table>
### 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/SMSS**
  - 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

- **System Protection**
  - White List Protection
  - Warnings of any unauthorized activities

### Product Specifications

<table>
<thead>
<tr>
<th>Product</th>
<th>Processor</th>
<th>PCH Chipset</th>
<th>Display Chipset</th>
<th>Resolution</th>
<th>Memory</th>
<th>Storage</th>
<th>IO Interface</th>
<th>Expansion</th>
<th>Power</th>
<th>Size (W x H x D)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UBC-DS31</td>
<td>Freescale i.MX6 Dual Cortex-A9</td>
<td>-</td>
<td>CPU Integrated</td>
<td>HDMI: up to 1920 x 1080 @ 60 Hz VGA: up to 1920 x 1080 @ 60 Hz</td>
<td>On-board DDR3 1066MHz 1GB</td>
<td>4GB eMMC NAND Flash; 1x SD card (optional)</td>
<td>1 x 2.5-inch SATA III HDD</td>
<td>1 x HDD/1 x USB2/1 x Line-out/1 x SD slot/1 x Reset button</td>
<td>DC 12V input, 36W</td>
<td>191 x 129 x 30 mm</td>
</tr>
<tr>
<td>DS-053</td>
<td>Intel® Atom™ D2550</td>
<td>Intel® NM10</td>
<td>Intel® GM60</td>
<td>HDMI: up to 1920 x 1080 @ 60 Hz VGA: up to 1920 x 1080 @ 60 Hz</td>
<td>1 x DDR3 800/1066MHz</td>
<td>1 x 2.5-inch SATA HDD</td>
<td>2 x MiniPCIe (Internal)</td>
<td>1 x MiniPCIe (Internal)</td>
<td>DC 19V input, 65W</td>
<td>180 x 190 x 19 mm</td>
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<tr>
<td>DS-370</td>
<td>Intel® Celeron J1900</td>
<td>-</td>
<td>CPU Integrated</td>
<td>HDMI: up to 1920 x 1080 @ 60 Hz VGA: up to 1920 x 1080 @ 60 Hz</td>
<td>1 x DDR3L 1333MHz</td>
<td>1 x 2.5-inch SATA III HDD</td>
<td>2 x MiniPCIe (Internal)</td>
<td>1 x MiniPCIe (Internal)</td>
<td>DC 19V input, 65W</td>
<td>204 x 118 x 44.2 mm</td>
</tr>
<tr>
<td>DS-570</td>
<td>Intel® Celeron N2930 Intel® Core™ i3-3217U Intel® Core™ i5-3550LE Intel® Core™ i7-3550U/ Intel® Core™ i7-3517U Intel® Core™ i5-3217U</td>
<td>-</td>
<td>NVIDIA GeForce GT730M AMD Radeon E5460</td>
<td>HDMI: up to 1920 x 1080 @ 60 Hz VGA: up to 1920 x 1080 @ 60 Hz</td>
<td>2 x DDR3L 1066MHz</td>
<td>1 x 2.5-inch SATA III HDD</td>
<td>2 x MiniPCIe (Internal)</td>
<td>1 x MiniPCIe (Internal)</td>
<td>DC 19V input, 65W</td>
<td>220 x 190 x 44.2 mm</td>
</tr>
<tr>
<td>DS-862</td>
<td>Intel® Core™ i7-3550U Intel® Core™ i5-3217U Intel® Core™ i5-3217U Intel® Core™ i5-3217U Intel® Core™ i5-3217U</td>
<td>Integrated in CPU Intel® QM77</td>
<td>Intel® GM60</td>
<td>HDMI: up to 1920 x 1080 @ 60 Hz VGA: up to 1920 x 1080 @ 60 Hz</td>
<td>-</td>
<td>1 x 2.5-inch SATA III HDD</td>
<td>2 x MiniPCIe (Internal)</td>
<td>1 x MiniPCIe (Internal)</td>
<td>DC 19V input, 65W</td>
<td>250 x 190 x 35 mm</td>
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# Recommended Products

## Intelligent POS System

<table>
<thead>
<tr>
<th>Product</th>
<th>ABOX</th>
<th>E-POS</th>
<th>Chameleon</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model Name</strong></td>
<td>ABOX-123</td>
<td>EP-5590</td>
<td>CM-5500</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>Red/Black</td>
<td>Black</td>
<td>Black/Yellow/White/Red</td>
</tr>
<tr>
<td><strong>System</strong></td>
<td>Intel Celeron J1900 (quad-core)</td>
<td>Intel® Celeron® J1900 Processor</td>
<td>Intel® Celeron® J1900 / Haswell i3/i5/i7 Processor</td>
</tr>
<tr>
<td><strong>Cache Memory</strong></td>
<td>2MB</td>
<td>2MB</td>
<td>2MB</td>
</tr>
<tr>
<td><strong>System Memory</strong></td>
<td>Maximum up to 8GB (SO-DIMM x 2 204-pin DDR II 1333)</td>
<td>Maximum up to 4GB (SO-DIMM x 2 204-pin DDR II 1333)</td>
<td>Maximum up to 4GB (SO-DIMM x 2 204-pin DDR II 1333)</td>
</tr>
<tr>
<td><strong>Display</strong></td>
<td>-</td>
<td>15&quot; VGA TFT LCD (1024 x 768)</td>
<td>15&quot; VGA TFT LCD (1224 x 768)</td>
</tr>
<tr>
<td><strong>Brightness</strong></td>
<td>-</td>
<td>250 cd/m²</td>
<td>250 cd/m²</td>
</tr>
<tr>
<td><strong>Bezels-Free</strong></td>
<td>-</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td><strong>Front Panel Protection</strong></td>
<td>Ip65</td>
<td>Ip65</td>
<td>Ip65</td>
</tr>
<tr>
<td><strong>Touch</strong></td>
<td>-</td>
<td>5 Wire Resistive Touch</td>
<td>5 Wire Resistive Touch</td>
</tr>
<tr>
<td><strong>HDD Driver</strong></td>
<td>1 x 2.5&quot; SATA HDD bay</td>
<td>1 x 2.5&quot; SATA HDD bay built-in</td>
<td>2 x 2.5&quot; SATA HDD bay</td>
</tr>
<tr>
<td><strong>SSD (optional)</strong></td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Serial Port</strong></td>
<td>COM1(RS-232/422/485), COM2 (RS-232)</td>
<td>COM1, COM2, COM5, COM6(Pole-mount VFD)</td>
<td>COM1, COM2</td>
</tr>
<tr>
<td><strong>USB Port</strong></td>
<td>2 x USB 3.0 / 4 x USB 2.0</td>
<td>3 x USB 2.0, 1 x USB 3.0</td>
<td>USB 2.0 x 5, USB 3.0 x 1</td>
</tr>
<tr>
<td><strong>Audio</strong></td>
<td>1 x Line-out &amp; Mic-in</td>
<td>Line-out (Integrated stereo 2W + 2W speakers)</td>
<td>Line-out, Mic-in (Integrated stereo 2W x 2W speakers)</td>
</tr>
<tr>
<td><strong>Ethernet</strong></td>
<td>1 x RJ-45 Gigabit Ethernet (10/100/1000)</td>
<td>1 x RJ-45 Gigabit Ethernet (10/100/1000)</td>
<td>1 x RJ-45 Gigabit Ethernet (10/100/1000)</td>
</tr>
<tr>
<td><strong>Cash Drawer</strong></td>
<td>1 x RJ-11 (12V connector control)</td>
<td>RJ-11 (Adjustable 12V/24V, 2 connector control)</td>
<td>RJ-11 (Adjustable 12V/24V, 2 connector control)</td>
</tr>
<tr>
<td><strong>Secondary Display</strong></td>
<td>VFD / 10.1”/15” TFT LCD Display</td>
<td>VFD, 10” TFT LCD Display</td>
<td>VFD / 10”/15” TFT LCD Display</td>
</tr>
<tr>
<td><strong>Peripheral</strong></td>
<td>MSR only / MSR + IC Card Reader</td>
<td>MSR + IC Card Reader</td>
<td>MSR + IC Card Reader</td>
</tr>
<tr>
<td><strong>OS</strong></td>
<td>POSReady 7, Windows Embedded 8.1 Industry, Windows 10 IoT</td>
<td>POSReady 7, Windows Embedded 8.1 Industry Pro / Windows 10 IoT</td>
<td>POSReady 7, Embedded Windows 8 Pro, Windows 10 and Linux Kerne 3.13 or above</td>
</tr>
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</table>

## MPOS-70

<table>
<thead>
<tr>
<th>Main Board</th>
<th>Processor</th>
<th>Memory</th>
<th>Storage</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Modmmbuted M6SFIQ Cortex A9S</td>
<td>2GB</td>
<td>16GB</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MicroSD</td>
<td></td>
</tr>
<tr>
<td>Display</td>
<td>Resolution</td>
<td>Touch</td>
<td>Connectivity</td>
</tr>
<tr>
<td></td>
<td>9&quot;</td>
<td></td>
<td>PLCAN 602.11a/b/g/dual band</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>WiFi 802.11a/b/g/dual band</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>NFC</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Micro USB D.O.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>UART 1.5x1.5, 1.8, 5V</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>RJ-11</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>RS-485/422</td>
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<td>USB</td>
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<td>HDMI</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>WiFi</td>
</tr>
</tbody>
</table>

## Function Keys (Physical)

- MSR/IC Card Reader
- MSR + Button/ Fingerprint/ RFID / WiFi + IC Card Reader
- MSR + Button/Fingerprint/RFID / WiFi + IC Card Reader

## Dimension & Power

- Width: 185mm x 185mm
- Depth: 50mm
- Weight: Under 2kg
- Battery: 3,000mAh / Removable

## Operation System

- Android 5.1
<table>
<thead>
<tr>
<th>Product</th>
<th>W-POS</th>
<th>UTC-315P</th>
<th>UTC-318P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model Name</td>
<td>WP-5530</td>
<td>WP-7530</td>
<td>UTC-315P</td>
</tr>
<tr>
<td>Color</td>
<td>Black</td>
<td>Black</td>
<td>Black/White</td>
</tr>
<tr>
<td>CPU</td>
<td>Intel® Bay Trail® quad-core J1900 / Haswell Core i3 / i5 / i7 Processor</td>
<td>Intel® Bay Trail® J1900 / Haswell Core i3-4000U Processor</td>
<td>Intel® Bay Trail® J1900 / Haswell Core i5-4300U Processor</td>
</tr>
<tr>
<td>Clothe Memory</td>
<td>2MB</td>
<td>1MB</td>
<td>Maximum up to 3MB</td>
</tr>
<tr>
<td>System Memory</td>
<td>Maximum up to 8GB (SO-DIMM 2 x 204-pin DDR3L 1333/1600)</td>
<td>Maximum up to 8GB (SO-DIMM 2 x 204-pin DDR3L 1333/1600)</td>
<td>Maximum up to 8GB DDR3L</td>
</tr>
<tr>
<td>Resolution</td>
<td>15” VGA TFT LCD (1024 x 768)</td>
<td>15” VGA TFT LCD (1024 x 768)</td>
<td>15.6” VGA TFT LCD (1366 x 768)</td>
</tr>
<tr>
<td>Brightness</td>
<td>250 cd/m²</td>
<td>250 cd/m²</td>
<td>250 cd/m²</td>
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<tr>
<td>Display</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Front Panel Protection</td>
<td>Ip65</td>
<td>Ip65</td>
<td>Ip65</td>
</tr>
<tr>
<td>Touch</td>
<td>P-CAP Touch</td>
<td>5-wire Resistive / P-CAP Touch</td>
<td>5-wire Resistive / P-CAP Touch</td>
</tr>
<tr>
<td>HDD Driver</td>
<td>1 x 2.5” SATA HDD bay</td>
<td>1 x 2.5” SATA HDD bay</td>
<td>1 x 2.5” internal SATA HDD bay</td>
</tr>
<tr>
<td>SSD (optional)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Serial Port</td>
<td>COM1, COM2, COM3</td>
<td>COM1, COM2, COM5</td>
<td>1 x RS-232, 1 x RS-232/242/485</td>
</tr>
<tr>
<td>USB Port</td>
<td>USB 2.0 x 3, USB 3.0 x 2, 12V Power USB x 1</td>
<td>USB 2.0 x 6, USB 2.0 x 6 &amp; USB 3.0 x 2, 12V Power USB x 1</td>
<td>USB 2.0 x 6, USB 3.0 x 2, 12V Power USB x 1</td>
</tr>
<tr>
<td>Audio</td>
<td>1 x Line-out, 1 x Mic-in (integrated stereo 2W + 2W speakers)</td>
<td>1 x Line-out, 1 x Mic-in</td>
<td>1 x Line-out, 1 x Mic-in</td>
</tr>
<tr>
<td>Ethernet</td>
<td>1 x RJ-45 Gigabit Ethernet (10/100/1000)</td>
<td>1 x RJ-45 Gigabit Ethernet (10/100/1000)</td>
<td>2 x RJ-45 Gigabit Ethernet (10/100/1000)</td>
</tr>
<tr>
<td>Cash Drawer</td>
<td>RJ-11 (Adjustable 12V/24V, 1 connector control 2 cash drawer)</td>
<td>RJ-11 (Adjustable 12V/24V, 1 connector control 2 cash drawer)</td>
<td>RJ-11 (Adjustable 12V/24V, 1 connector control 2 cash drawer)</td>
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**MPOS-55**

<table>
<thead>
<tr>
<th>Main board</th>
<th>Processor</th>
<th>Intel Atom X5-6250</th>
<th>Intel Atom X5-6250</th>
<th>Intel Atom X5-6250</th>
<th>Intel Atom X5-6250</th>
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<tbody>
<tr>
<td>System Memory</td>
<td>2GB</td>
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<td>2GB</td>
<td>2GB</td>
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<tr>
<td>Internal Storage</td>
<td>32GB / 64GB</td>
<td>32GB / 64GB</td>
<td>32GB / 64GB</td>
<td>32GB / 64GB</td>
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<tr>
<td>Front Panel</td>
<td>Micro SD</td>
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<td>Display</td>
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<td>Resolution</td>
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<td>Touch</td>
<td>P-CAP multi-touch</td>
<td>P-CAP multi-touch</td>
<td>P-CAP multi-touch</td>
<td>P-CAP multi-touch</td>
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<tr>
<td>Connectivity</td>
<td>1x Slot</td>
<td>1x Slot</td>
<td>1x Slot</td>
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<td>Yes</td>
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<tr>
<td>NFC</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>Micro USB 2.0</td>
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<td>Bluetooth</td>
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<tr>
<td>Wireless Communication</td>
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<td>802.11 b/g/n</td>
<td>802.11 b/g/n</td>
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<tr>
<td>POS Peripherals</td>
<td>Camera</td>
<td>5.0MP</td>
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<td>5.0MP</td>
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<td>Function Keys</td>
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<tr>
<td></td>
<td>IC Card Reader</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>1D/2D Barcode Scanner</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Operation System</td>
<td>Windows 8.1</td>
<td>Windows 8.1</td>
<td>Windows 8.1</td>
<td>Windows 8.1</td>
<td></td>
</tr>
<tr>
<td>Dimension &amp; Power</td>
<td>Width</td>
<td>178mm (7.8&quot;)</td>
<td>178mm (7.8&quot;)</td>
<td>178mm (7.8&quot;)</td>
<td>178mm (7.8&quot;)</td>
</tr>
<tr>
<td></td>
<td>Height</td>
<td>121mm (4.7&quot;)</td>
<td>121mm (4.7&quot;)</td>
<td>121mm (4.7&quot;)</td>
<td>121mm (4.7&quot;)</td>
</tr>
<tr>
<td></td>
<td>Battery</td>
<td>6,000mAh / Embedded</td>
<td>6,000mAh / Embedded</td>
<td>6,000mAh / Embedded</td>
<td>6,000mAh / Embedded</td>
</tr>
</tbody>
</table>

**Intelligent POS System**

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## Recommended Products

### Ubiquitous Touch Computer

<table>
<thead>
<tr>
<th>Product</th>
<th>UTC-510</th>
<th>UTC-515</th>
<th>UTC-520</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>10.1&quot; Ubiquitous Touch Computer</td>
<td>15.6&quot; Ubiquitous Touch Computer</td>
<td>21.5&quot; Ubiquitous Touch Computer</td>
</tr>
<tr>
<td><strong>Model name</strong></td>
<td>UTC-510D</td>
<td>UTC-515D</td>
<td>UTC-515E</td>
</tr>
<tr>
<td><strong>CPU</strong></td>
<td>Intel® Atom™ E3825</td>
<td>Intel® Celeron™ J1900</td>
<td>Intel® Core™ i5-4300U 1.9GHz</td>
</tr>
<tr>
<td><strong>Cache Memory</strong></td>
<td>1MB</td>
<td>2MB</td>
<td>3MB</td>
</tr>
<tr>
<td><strong>System Memory</strong></td>
<td>1 x SO-DIMM DDR3L 1066 MHz, up to 8 GB</td>
<td>1 x SO-DIMM DDR3L 1333 MHz up to 8 GB</td>
<td>1 x SO-DIMM DDR3L 1333 MHz up to 8 GB</td>
</tr>
<tr>
<td><strong>HDD</strong></td>
<td>1 x 2.5 Internal SATA HDD bay</td>
<td>1 x 2.5 Internal SATA HDD bay</td>
<td>1 x 2.5 Internal SATA HDD bay</td>
</tr>
<tr>
<td><strong>Display</strong></td>
<td>10.1&quot; TFT LCD</td>
<td>15.6&quot; TFT LCD</td>
<td>21.5&quot; TFT LCD</td>
</tr>
<tr>
<td><strong>Max Resolution</strong></td>
<td>1280 x 800</td>
<td>1366 x 768</td>
<td>1920 x 1080</td>
</tr>
<tr>
<td><strong>Touch Screen</strong></td>
<td>Projected Capacitive</td>
<td>Projected Capacitive (Flat Glass)</td>
<td>Projected Capacitive (Flat Glass)</td>
</tr>
<tr>
<td><strong>Glass Panel</strong></td>
<td>Glass Panel (No touch function)</td>
<td>Glass Panel (No touch function)</td>
<td>Glass Panel (No touch function)</td>
</tr>
<tr>
<td><strong>USB Port</strong></td>
<td>2 x USB 2.0, 1 x USB 3.0</td>
<td>3 x USB 3.0</td>
<td>3 x USB 2.0, 1 x USB 3.0</td>
</tr>
<tr>
<td><strong>COM Port</strong></td>
<td>2 x RS-232 COM</td>
<td>2 x RS-232 COM</td>
<td>2 x RS-232 COM</td>
</tr>
<tr>
<td><strong>HDMI Port</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Extension Port</strong></td>
<td>Half size MiniPCIe x1 Half size mSATA</td>
<td>Full-size MiniPCIe/mSATA</td>
<td>Full-size MiniPCIe/mSATA</td>
</tr>
<tr>
<td><strong>Network</strong></td>
<td>1 x Gigabit Ethernet ports</td>
<td>2 x Gigabit Ethernet ports</td>
<td>2 x Gigabit Ethernet ports</td>
</tr>
</tbody>
</table>

### Other Products

<table>
<thead>
<tr>
<th>Product</th>
<th>UTC-312</th>
<th>UTC-315</th>
<th>UTC-318</th>
<th>UTC-322</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>11.6&quot; Ubiquitous Touch Computer</td>
<td>15.6&quot; Ubiquitous Touch Computer</td>
<td>18.5&quot; Ubiquitous Touch Computer</td>
<td>21.5&quot; Ubiquitous Touch Computer</td>
</tr>
<tr>
<td><strong>Model name</strong></td>
<td>UTC-312D</td>
<td>UTC-315D</td>
<td>UTC-315E</td>
<td>UTC-318D</td>
</tr>
<tr>
<td><strong>CPU</strong></td>
<td>Intel® Celeron™ J1800</td>
<td>Intel® BayTrail™ J1900</td>
<td>Intel® Core™ i5-4300U 1.9GHz</td>
<td>Intel® Celeron™ J1800</td>
</tr>
<tr>
<td><strong>Cache Memory</strong></td>
<td>2MB</td>
<td>2MB</td>
<td>3MB</td>
<td>3MB</td>
</tr>
<tr>
<td><strong>System Memory</strong></td>
<td>1 x SO-DIMM DDR3L 1333 MHz up to 8 GB</td>
<td>1 x SO-DIMM DDR3L 1333 MHz up to 8 GB</td>
<td>1 x SO-DIMM DDR3L 1333 MHz up to 8 GB</td>
<td>1 x SO-DIMM DDR3L 1333 MHz up to 8 GB</td>
</tr>
<tr>
<td><strong>HDD</strong></td>
<td>1 x 2.5&quot; SATA SSD or mSATA</td>
<td>1 x 2.5&quot; SATA SSD or mSATA</td>
<td>1 x 2.5&quot; SATA SSD or mSATA</td>
<td>1 x 2.5&quot; SATA SSD or mSATA</td>
</tr>
<tr>
<td><strong>Display</strong></td>
<td>11.6&quot; TFT LCD</td>
<td>15.6&quot; TFT LCD</td>
<td>15.6&quot; TFT LCD</td>
<td>15.6&quot; TFT LCD</td>
</tr>
<tr>
<td><strong>Max Resolution</strong></td>
<td>1366 x 768</td>
<td>1366 x 768</td>
<td>1366 x 768</td>
<td>1366 x 768</td>
</tr>
<tr>
<td><strong>Touch Screen</strong></td>
<td>Projected Capacitive (Flat Glass)</td>
<td>Projected Capacitive (Flat Glass)</td>
<td>Projected Capacitive (Flat Glass)</td>
<td>Projected Capacitive (Flat Glass)</td>
</tr>
<tr>
<td><strong>USB Port</strong></td>
<td>2 x USB 2.0 / 1 x USB 3.0</td>
<td>5 x USB 2.0, 1 x USB 3.0</td>
<td>5 x USB 2.0, 1 x USB 3.0</td>
<td>5 x USB 2.0, 1 x USB 3.0</td>
</tr>
<tr>
<td><strong>COM Port</strong></td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>HDMI Port</strong></td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>Extension Port</strong></td>
<td>Mini PCIe x 2</td>
<td>Full-size MiniPCIe/mSATA</td>
<td>Full-size MiniPCIe/mSATA</td>
<td>Full-size MiniPCIe/mSATA</td>
</tr>
<tr>
<td><strong>Network</strong></td>
<td>1 x Gigabit Ethernet ports</td>
<td>2 x Gigabit Ethernet ports</td>
<td>2 x Gigabit Ethernet ports</td>
<td>2 x Gigabit Ethernet ports</td>
</tr>
</tbody>
</table>

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### Ubiquitous Touch Computer

<table>
<thead>
<tr>
<th></th>
<th>UTC-532</th>
<th>UTC-542</th>
<th>UTC-W101BF</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model Name</strong></td>
<td>UTC-532C</td>
<td>UTC-532D</td>
<td>UTC-532E</td>
</tr>
<tr>
<td><strong>CPU</strong></td>
<td>Intel® Core™ i7-3937U 1.7GHz</td>
<td>Intel® Celeron J1900</td>
<td>Intel® Core™ i5-4300U 1.9GHz</td>
</tr>
<tr>
<td><strong>Cache Memory</strong></td>
<td>4 MB</td>
<td>4 MB</td>
<td>3 MB</td>
</tr>
<tr>
<td><strong>System Memory</strong></td>
<td>1 x SO-DIMM DDR3/DDR3L 1333/1600 MHz up to 8 GB</td>
<td>1 x SO-DIMM DDR3L 1333 MHz up to 8 GB</td>
<td>1 x SO-DIMM DDR3L 1333 MHz up to 8 GB</td>
</tr>
<tr>
<td><strong>HDD</strong></td>
<td>1 x 2.5 internal SATA HDD bay</td>
<td>1 x 2.5 internal SATA HDD bay</td>
<td>1 x Mini SATA</td>
</tr>
<tr>
<td><strong>Display</strong></td>
<td>32&quot; TFT LCD</td>
<td>42&quot; TFT LCD</td>
<td>10.1&quot; TFT LCD</td>
</tr>
<tr>
<td><strong>Resolution</strong></td>
<td>1920 x 1080</td>
<td>1920 x 1080</td>
<td>1024 x 600</td>
</tr>
<tr>
<td><strong>Touch Screen</strong></td>
<td>Projected Capacitive (Flat Glass)</td>
<td>Glass Panel (No touch function)</td>
<td>Projected Capacitive (Flat Glass)</td>
</tr>
<tr>
<td><strong>USB Port</strong></td>
<td>2 x USB 2.0, 2 x USB 3.0</td>
<td>3 x USB 2.0, 1 x USB 3.0</td>
<td>2 x USB 2.0, 2 x USB 3.0</td>
</tr>
<tr>
<td><strong>COM Port</strong></td>
<td>2 x RS-232</td>
<td>2 x RS-232 COM</td>
<td></td>
</tr>
<tr>
<td><strong>HDMI Port</strong></td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td><strong>LAN Port</strong></td>
<td>2 x Gigabit Ethernet ports</td>
<td>2 x Gigabit Ethernet ports</td>
<td>1 x Gigabit Ethernet ports</td>
</tr>
<tr>
<td><strong>Network</strong></td>
<td>Full-size MiniPCIe/miniSATA</td>
<td>Mini PCIe x 1</td>
<td></td>
</tr>
</tbody>
</table>

### Product

<table>
<thead>
<tr>
<th></th>
<th>5M Camera Module</th>
<th>Magnetic Stripe Card Reader</th>
<th>NFC/RFID Reader Module</th>
<th>Smart Card Reader Module</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model</strong></td>
<td>UTC-300</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>UTC-500</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Auto focusing on 40-80 cm, Video format: YUY2, MJPEG</td>
<td>Card standard: ANSI, ISO, ABA, Read speed: 1-60 IPS, Read life: 1,000,000 times</td>
<td>13.56 MHz frequency, Read mode: ISO 15693 / 14443A / B / 18092-3 / Felica, Reading range: 3 +/- 1 cm</td>
<td>User card friction type (ID-1), 280,000 cycles, SAM card: 5000 insertions, Compliant CPU card and memory card</td>
</tr>
</tbody>
</table>

### Product

<table>
<thead>
<tr>
<th></th>
<th>Barcode Scanner Module</th>
<th>iBeacon Module</th>
<th>Multi-functional Floor Stand</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model</strong></td>
<td>UTC-300</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>UTC-500</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>1D/2D barcode scanner</td>
<td></td>
<td>Compact design and easy installation; Optional thermal printer bracket</td>
</tr>
</tbody>
</table>