ADVANTECH iRetail

2019
GUIDE BOOK

Intelligent Retail

Experts in Digitalized Store Solutions

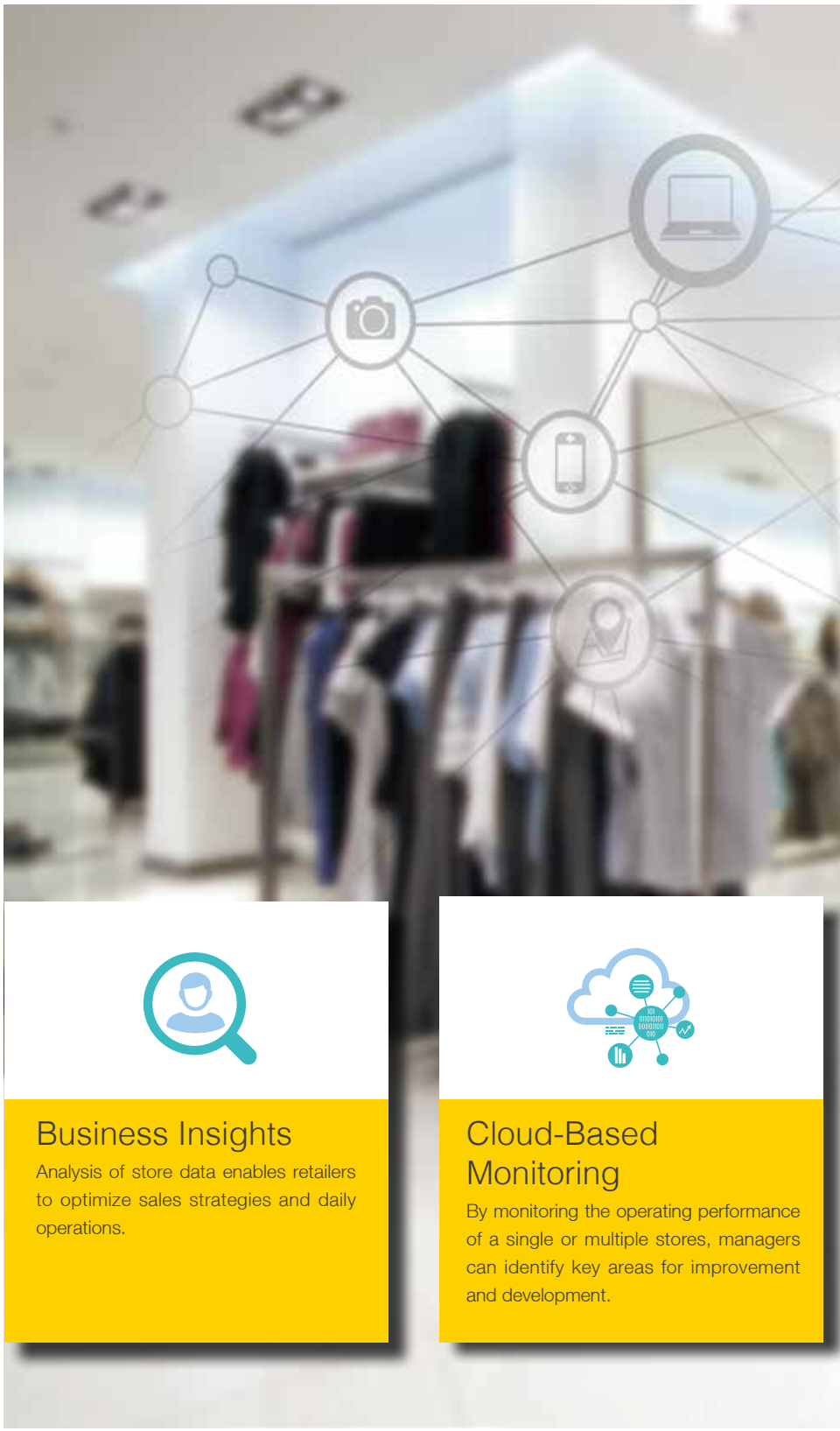
Internet of Things

A New Era for Retail

The arrival of the Internet of Things (IoT) and resulting paradigm shift has generated many new business opportunities related to smart city and Industry 4.0 technologies. With “Enabling an Intelligent Planet” as its core mission, Advantech, a global leader of the embedded systems market, divided its business into vertical markets in order to accelerate IoT development. Accordingly, Advantech’s Service IoT Division has begun cultivating smart city solutions for the following three main domains: intelligent retail and hospitality, digital healthcare, and digital logistics and fleet management.

The retail industry has reached a crucial point in its transformation, where big data analysis, enhancement of the customer experience, and online shopping have become key areas for innovation. Advantech’s iRetail solutions are aimed at vertical markets, such as chain stores, food and beverage businesses, supermarkets/hypermarkets, and shopping malls. Advantech is dedicated to developing the most effective retail applications for IoT-related applications and cloud-based services. With cloud-based retail service platforms as a core focus, Advantech has developed several solutions that target shopper engagement, cashier management, operational support, and business intelligence.

For retailers, Advantech’s one-stop retail technology integration service can not only optimize retail operations, but also improve the customer experience while also providing competitive advantages. According to the company’s culture of “altruism”, Advantech’s iRetail team provides assistance to retailers hoping to break into omni-channel retailing. As a leading provider of intelligent retail solutions, Advantech remains committed to not only improving customer satisfaction, but also enhancing the efficiency of retail operations.



Business Insights

Analysis of store data enables retailers to optimize sales strategies and daily operations.

Cloud-Based Monitoring

By monitoring the operating performance of a single or multiple stores, managers can identify key areas for improvement and development.

Store Management

By collecting cross-store performance data, management can set performance benchmarks to enhance overall productivity.

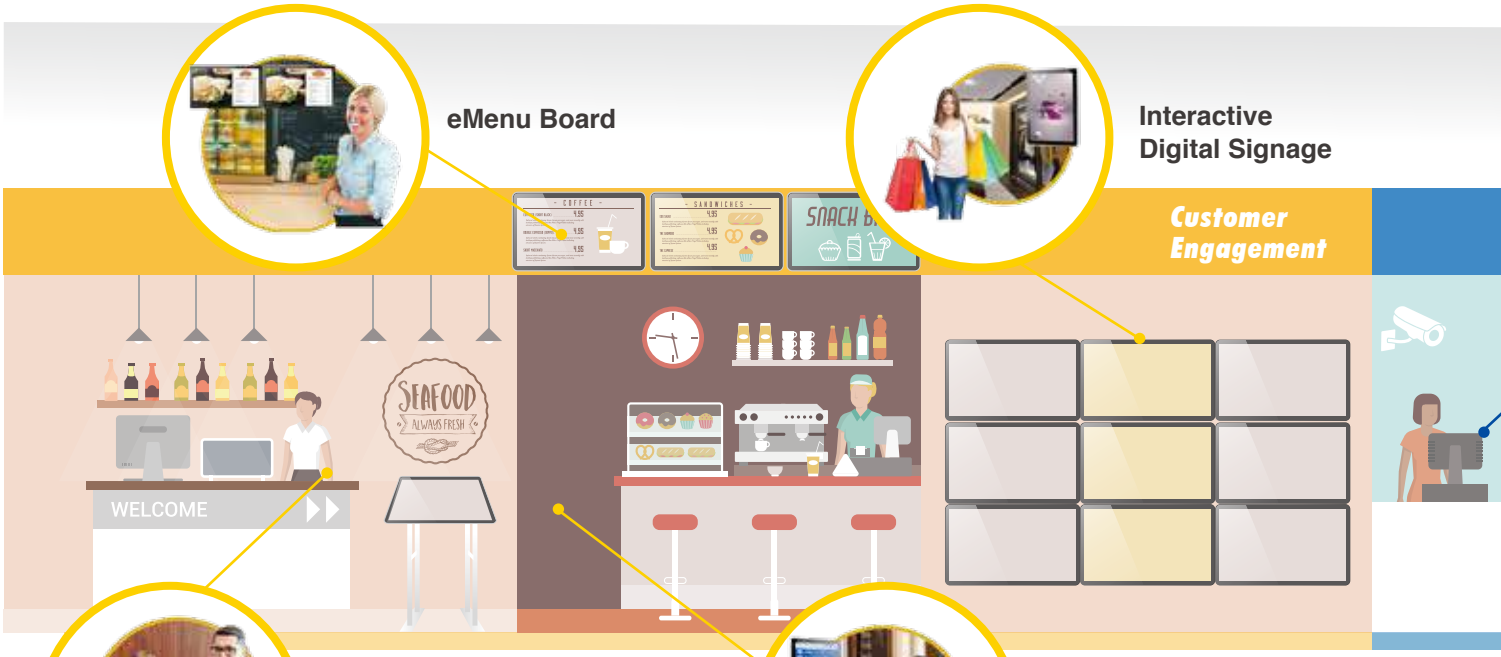
One-Stop Service

Comprehensive solutions that include intelligent IT architecture, project management, product training, after-sales support, and RMA services are provided.

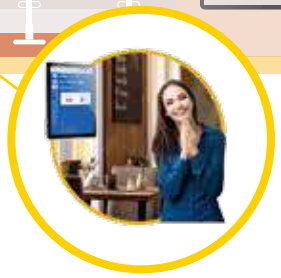
Platform Integration

Advantech's UShop+ cloud platform provides an open API for multi-solution integration, enabling retailers to efficiently optimize store management.

Intelligent Retail and Hospitality



Customer Feedback System



Queuing Management

Computing Platforms

Intelligent Multimedia Player

Interactive Digital Signage

Self-Service Kiosk

IoT Devices

Camera

MSR

RFID Reader

Barcode Scanner

Smart Card Reader

UShop+

- Open application programming interfaces
- Store performance analytics
- Cross-data analysis
- Mobile management

POS Loss Prevention

Refrigeration and Food Temperature Monitoring

Energy and Environment Management

Store Heatmap Analysis

Store Traffic Analysis

Intelligent POS

Mobile POS

Handheld Tablet

Store Server

iBeacon

Fingerprint Reader

3-in-1 Payment Module

iButton

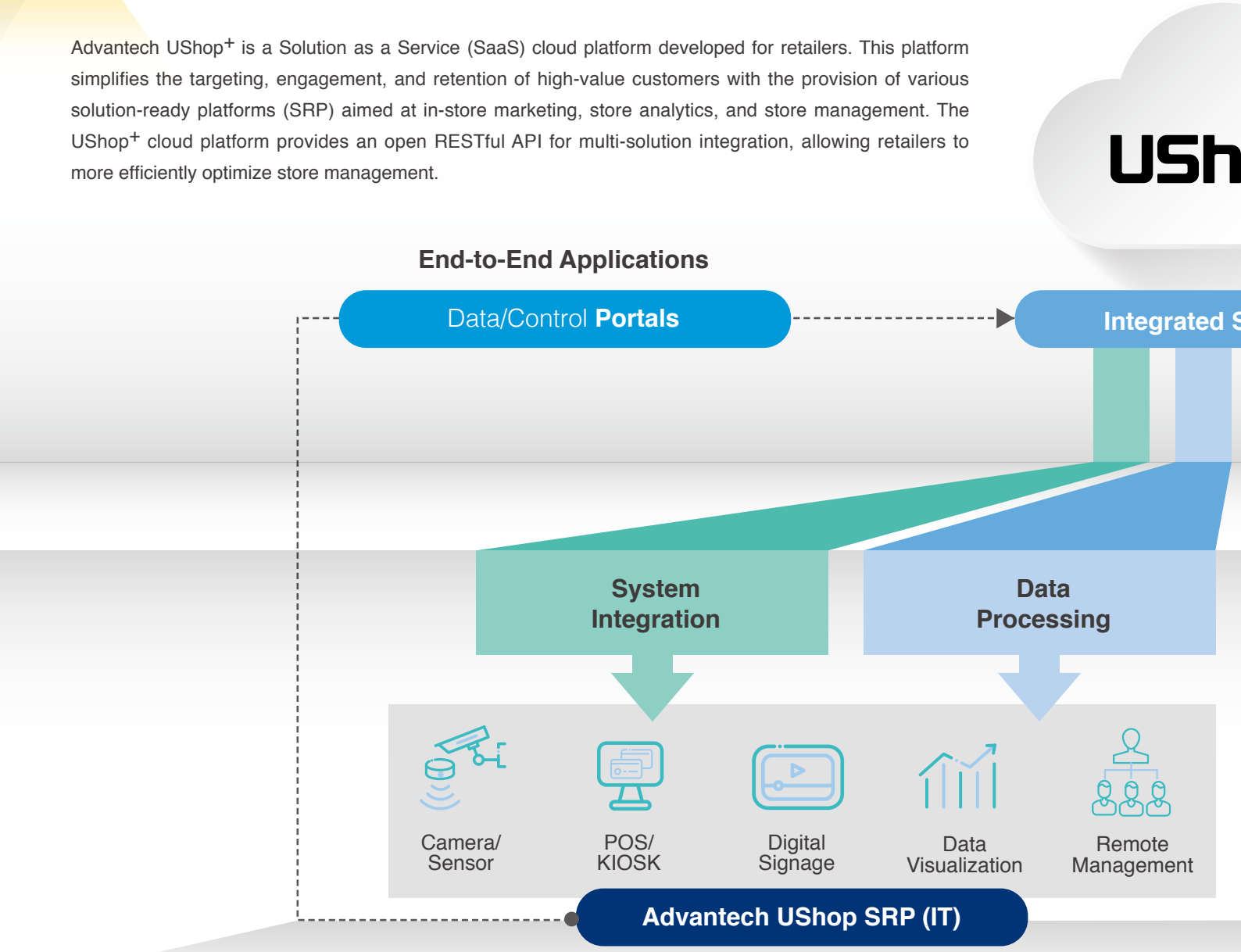
Printer

Indoor Air Quality Sensor

Smart Counting Camera

UShop+ Architecture

Advantech UShop+ is a Solution as a Service (SaaS) cloud platform developed for retailers. This platform simplifies the targeting, engagement, and retention of high-value customers with the provision of various solution-ready platforms (SRP) aimed at in-store marketing, store analytics, and store management. The UShop+ cloud platform provides an open RESTful API for multi-solution integration, allowing retailers to more efficiently optimize store management.



Multi-Solution Integrated Platform

Sales Insights with Business Intelligence

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Solution Integration

SaaS/DaaS

Data/Control **APIs**

Operation Integration

Intelligent Service

POS/CRM Integration

Data Analysis

Employee Management

Customer Engagement

SI Alliance/Co-Creation (OT)

User-Defined BI Dashboard

Manage Multiple Stores Using a Single Device

Interactive Digital Signage

Advantech's UShop SRP-130 interactive digital signage solution not only delivers dynamic and immersive multimedia content, but also increases customer engagement by broadcasting content specifically targeted to the customer. Using a variety of IoT sensors, including facial detection cameras, RFID readers, and in-store heatmaps, UShop SRP-130 adds interactivity to a digital signage network, opening up a whole new world of possibilities for both retailers and consumers.

USER BENEFITS

Use Precision Marketing to Attract Target Customers

Numerous Flexible and Customizable Scenarios

Enhance Customer Engagement with Relevant Marketing

Reduce Labor Costs via Centralized Management

SOFTWARE FEATURES

WISE-PaaS/SignageCMS

Interactive Content Creator for Signage Applications

WISE-PaaS/SignageCMS is a web-based content management system designed to deliver high-resolution multimedia in diverse formats to UShop+ signage players. The system allows users to layout, schedule, and dispatch signage contents over the Internet to up to 500 remote display clients.

The software includes RESTful APIs that enable users to access and control applications from the server and to integrate various interactive devices, such as an RFID reader, beacon, or facial recognition system.

Supports Offline Playback via USB

Interactive APIs for Easy Integration

Remote Centralized Management

SYSTEM ARCHITECTURE

Intelligent eMenu Board

Advantech's intelligent eMenu board allows business owners to easily promote services and products via real-time advertisements. Managers can remotely edit and dispatch content to the eMenu board system, which then disseminates the content to multiple client devices (across stores). The eMenu board system can be integrated with a restaurant's POS data to allow customers to make last-minute order updates using the POS system or mobile app, thereby increasing customer satisfaction.

USER BENEFITS

Remote Management and Synchronized Updates

Professional, Easy-to-Use eMenu Templates and Typesetting

Interactive Menu Content Enhances the Dining Experience

Increase Sales with Efficient Precision Marketing

SOFTWARE FEATURES

WISE-PaaS/SignageCMS

Cloud-Based Design Software for eMenu Boards

WISE-PaaS/SignageCMS is a web-based content management system capable of delivering high-resolution multimedia to UShop+ signage players, while also providing diverse menu templates for easy editing and real-time broadcasts.

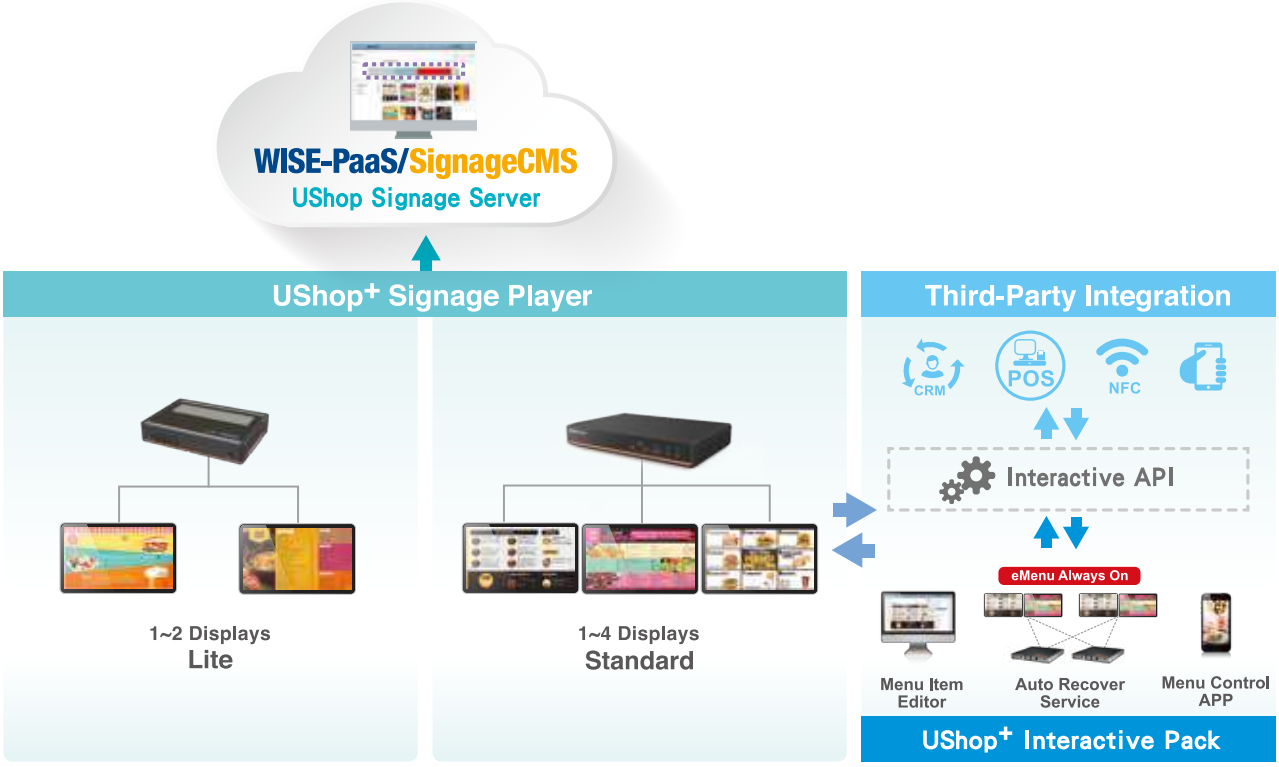
The software can be integrated with a store's mobile POS app, allowing business owners to update the menu or promotions via the POS system or mobile app.

"WYSIWYG" User Interface

Schedule and Dispatch Content

Remote Device Management

SYSTEM ARCHITECTURE



Store Traffic Analytics

For retailers, sales revenue is always a key performance metric; however, in-depth analysis of poor sales performances is rare. Advantech's UShop SRP-700 store traffic analytics solution enables retailers to evaluate sales potential and establish customer service and marketing strategies for maximizing profit. UShop SRP-700 integrates 2D and 3D video analysis technology with POS transaction data for business insights. Analysis of customer traffic data provides retailers with an in-depth knowledge of consumer shopping and purchasing habits, as well as insights into sales performance during periods of high/low traffic for each store.

USER BENEFITS

Guaranteed Accuracy for High-Traffic Volumes

Integrate POS Data with People Counting Technology

Manage Multiple Stores Using a Single Device

Optimize Staff Allocation and Efficiency

SOFTWARE FEATURES

UShop+ Store BI

Understand Business Trends at a Glance

UShop+ Store BI software provides retailers with data analytics and actionable insights by integrating several in-store data visualization solutions, including store traffic and heatmap analysis, to enhance retail management. The software allows retailers to easily filter and group data, create custom dashboards, and understand trends at a glance via charts and graphs. By enabling comprehensive data visualization, UShop+ Store BI allows business owners to explore data and identify patterns in order to optimize operations.

KPI Overview and Store Ranking

Multi-Data Analysis

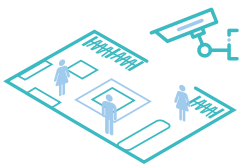
UShop+ Mobile Manager App

SYSTEM ARCHITECTURE

Store Heatmap Analysis

In the past, retail personnel had to guess where the high-traffic areas were and adjust the in-store product displays and advertisements. However, without actual data, the advertising and promotional efficiency could not be maximized. Advantech's store heatmap analysis uses image technology combined with POS transaction data as well as big data analysis to provide comprehensive, in-depth analysis of consumer behavior. With heatmap analysis, retail personnel can identify where customers are gathering to optimize product displays and adjust pricing strategies for more effective marketing.

USER BENEFITS



Real-World Scene Analysis

Cross-Store Analysis

Store Layout Optimization

Improved Marketing and Promotions

SOFTWARE FEATURES

UShop+ Store BI

Obtain Business Insights at a Glance

UShop+ Store BI software provides retailers with data analytics and actionable insights by integrating several in-store data visualization solutions, including store traffic and heatmap analysis, to enhance retail management.

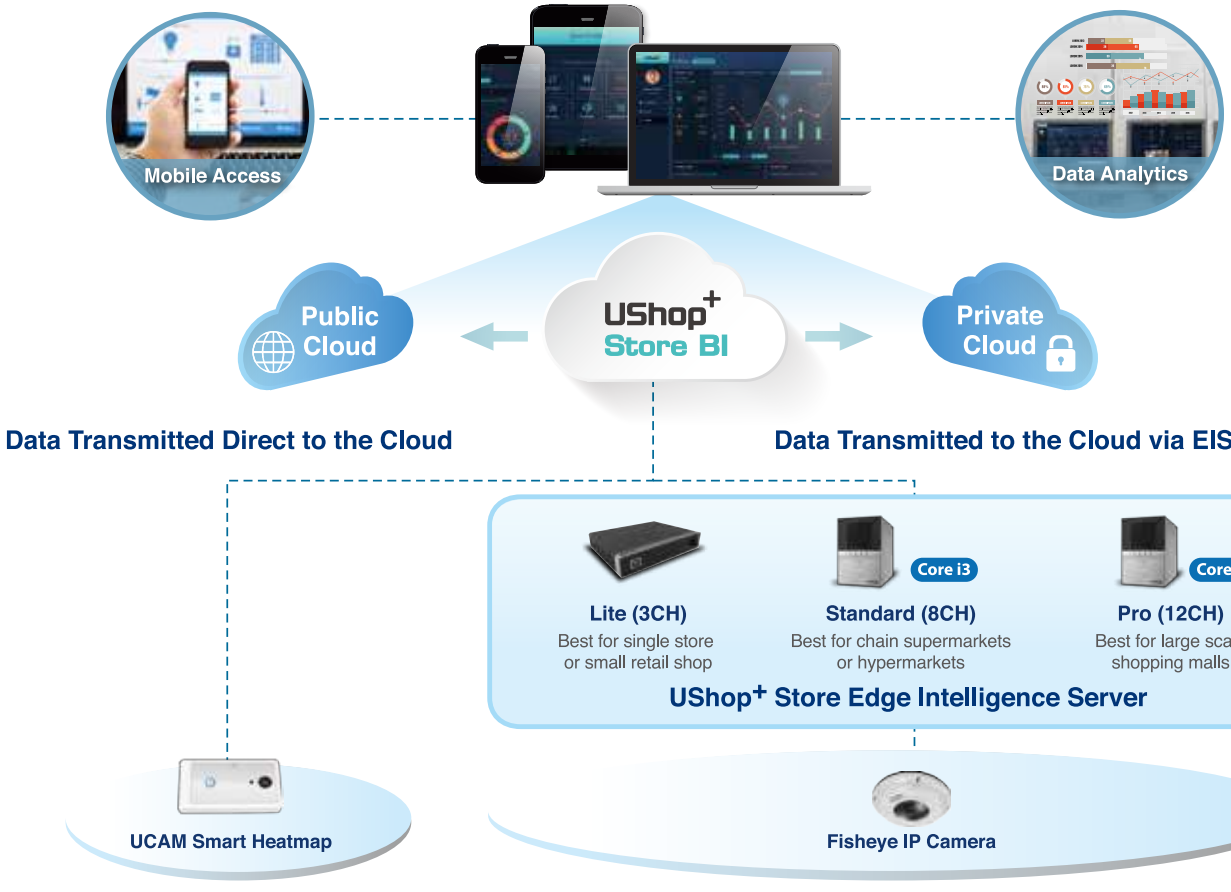
The software also features several statistics widgets for visualizing data, such as the number of store visitors, sales conversion rates, customer heatmaps, and dwell time. Retailers can even pin or create user-defined widgets in cross-region or cross-period reports.

Regional Heatmap Overview

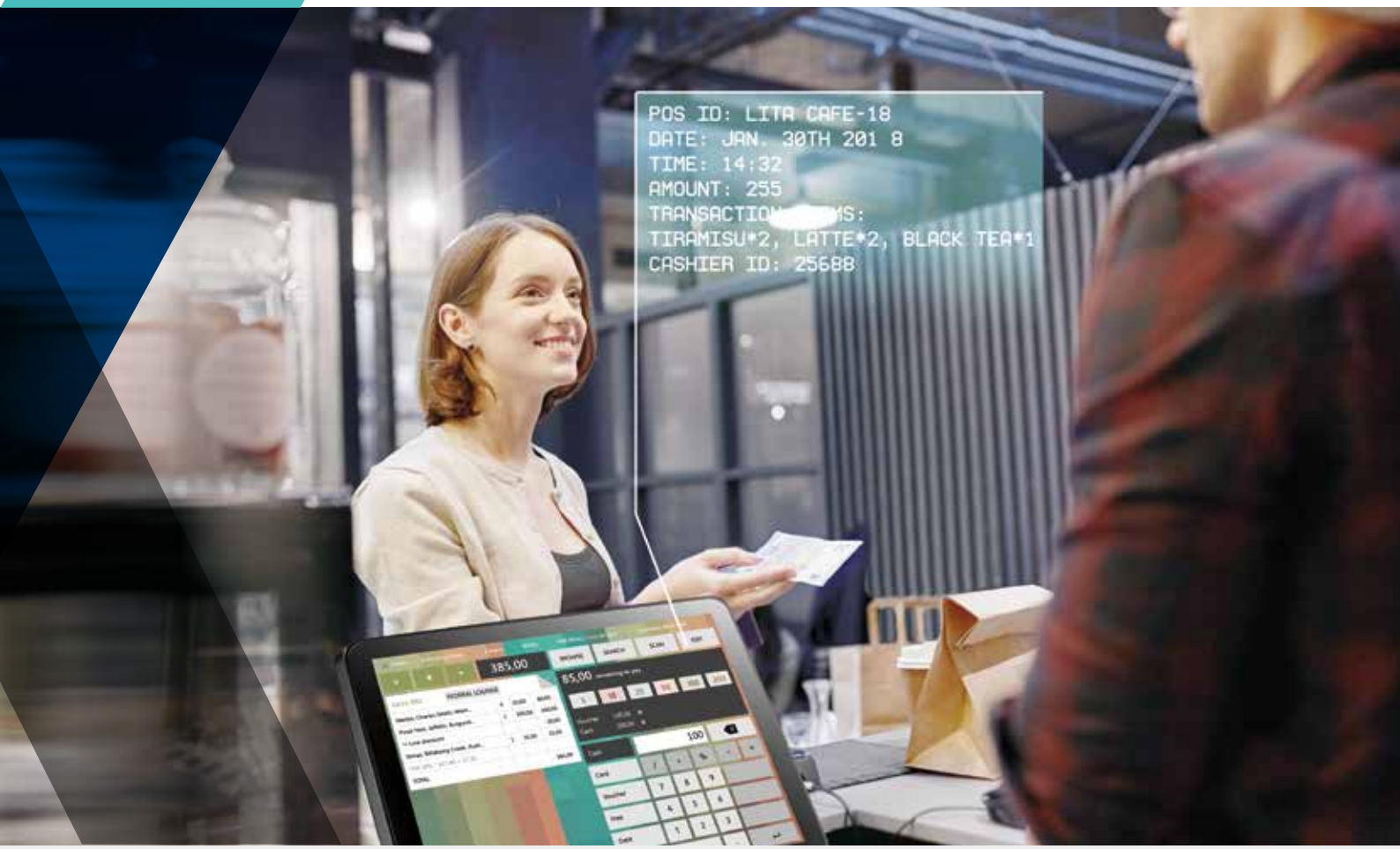
Detailed Zone Analysis

Easy Mobile Management

SYSTEM ARCHITECTURE



POS Loss Prevention



In the retail and food and beverage industries, net profit margins are typically lower than that of other industries. Additionally, such businesses also face disproportionate “losses” due to theft, fraud, vandalism, waste, abuse, or misconduct during daily operations.
Advantech’s loss prevention solution provides data analytics of video content collected at the point-of-sale and throughout the facilities to provide actionable business information. The loss prevention analytics feature allows business owners to review the analysis results on a dashboard and receive timely mobile notifications of abnormalities to further reduce preventable losses and optimize operations.

USER BENEFITS

- Payment Transaction Recording and Monitoring
- Pre-Defined Criteria for Abnormal POS Transactions
- Analysis of Business Intelligence
- Reports Delivered to Mobile Devices

SOFTWARE FEATURES

UShop+ Store SENSE

Store Management Software for Improving Operational Efficiency

UShop+ Store SENSE software is designed to facilitate management of devices, sensors, and staff. Integrated with POS transaction data, IP cameras, and surveillance network video cameras, UShop+ Store SENSE allows retailers to check video records and submit POS investigation reports through a centralized management system. Managers can then review abnormal transaction behaviors and compile audit reports via a Web portal.

Instant Notifications of Abnormal Operations

Quick Query and Analysis of Abnormal Transactions

Key Business Metrics, Reports, and Dashboards

SYSTEM ARCHITECTURE

Application Stories

Subway Bangkok

Mr. Vichit, a Thai businessman, successfully established 16 Subway® franchise stores in Thailand. Advantech's Intelligent eMenu Board solution was adopted at each of Mr. Vichit's Subway® franchise stores. Using this solution, Mr. Vichit can easily edit and update the menu content remotely. The menu displays can also be configured to present special lunch/dinner promotions and offers based on the time of day.

Carrefour Taiwan

At Carrefour Taiwan, store managers faced problems with staff shortages during peak hours (and idle part-time staff during low-traffic periods). To address this issue, Carrefour deployed Advantech's UShop+ store traffic analytics solution with integrated UCAM 2D person counting cameras at various branch stores in Taiwan. UShop+ software can be used to output daily, weekly, monthly, and annual business intelligence reports that help store managers identify peak/off-peak hours and optimize overall operations. Advantech's customer satisfaction survey solution was also installed in over 100 branch stores in order to enhance customer service.

85 °C Bakery

To ensure unified and centralized management from headquarters, 85°C Bakery café deployed Advantech's POS Loss Prevention Solution for monitoring cashier transactions, and displaying abnormal transaction events on the back-end dashboard in real-time. Visual data BI reports were then output for store management to study. Since the deployment of Advantech's UShop+ Loss Prevention Solution, the number of in-store transaction abnormalities as well as cashier errors has greatly declined.

Consumer Electronics Chain

Mr. Lai, owner of the E-Company consumer electronics chain, previously assessed the performance of each chain store based on the daily sales volume. However, after implementing Advantech's store traffic and heatmap solution at his 20 stores, the store managers were able to check the store performance metrics, including the number of visitors, transaction amount, conversion rate, sales per man-hour, as well as average sales per unit area (sales revenue/total square meters of a store), using the UShop+ mobile management app.

Advantech

Intelligent Retail Edge Computing

All-in-One Service Touch Computers

All-in-One Self-Service Kiosks

Mobile Tablet Devices

Mobile POS Systems

Intelligent POS Systems

Industrial-Grade Box PCs

All-in-One Service Touch Computers

Advantech's UTC series are all-in-one computers equipped with an Intel® processor, fanless system, and multi-touch screen, making them ideal for a wide range of intelligent service applications. The true-flat monitor with 16:9 widescreen provides a beautiful and user-friendly display. Built to meet the needs of various professional applications, the UTC series can be easily integrated with multiple peripherals to extend the system functionalities. UTC series computers offer an extended product life, stable operation, and enhanced customer experience.

Scenarios and Applications

- Hotel Customer Survey Terminals

- Retail Store Interactive Signage

- Supermarket Interactive Terminals

- Retail Store O2O Terminals

- Mall Wayfinding Kiosks

- Restaurant Self-Order Kiosks

UTC-200 Series

UTC-210/215/220/232/242

10-42” True-Flat, Fanless, Open Frame Panel PC

- Built-in Intel® Core™ i5-6300U processor
- 10.1/15.6/21.5/31.5/42.5” monitor with 16:9 widescreen display
- Low-power, fanless system design
- Supports both portrait and landscape display modes
- Supports Windows® Embedded Standard 7/8, Windows® 10 IoT Enterprise, Linux Ubuntu 16.04/18.04, and Android 6.0

True-Flat | 16:9 WIDESCREEN | Full HD | intel | Glass/ PCAP/ Resistive Touch | IP65

OS Support: Windows | Windows Embedded | android | Linux

10-55" Open Frame, All-in-One PC with 16:9 LCD

The compact, slim design and 16:9 widescreen display provides enhanced installation flexibility and complements the system's sleek and stylish appearance.

Single-Unit, Open Frame Design for Easy System Integration and Installation

Aimed at diverse embedded applications, the UTC-200 series features an open-frame bracket and single-unit system design which allow it to be easily embedded into any kiosk, cabinet, or wall mount.

Excellent Performance and Multiple OS Support

Powered by the latest Intel® processor, UTC-200 series delivers excellent computing performance. The UTC-200 series also supports multiple OS that further increasing the system's overall compatibility and flexibility.

Rugged and Durable Touchscreen

UTC-200 series equipped with an IP65-rated a front panel for water and dust protection, conforming to environmental specifications for industrial and commercial operation environments.

UTC-300 Series

Stylish, Lightweight, All-in-One Touch Computers

AR

True-Flat | 16:9 WIDESCREEN | Full HD | intel | Glass/ PCAP/ Resistive Touch | IP65 | WIDE Input Voltage | Rich I/O | Standard VESA | Wi Fi | Remote Monitoring

Color Options: White Black

OS Support: Windows | Windows Embedded | ANDROID | Linux

Compact, Fanless System with Powerful Performance

Powered by the latest Intel® processor, UTC-300 series deliver superior computing performance in a compact, fanless system design, and supports multiple OS for diverse applications.

Flexible Installation with Removable Frame Design

UTC-300 series offer flexibility for stand-alone, panel, or VESA mount installation to support a wide range of applications. The removable frame design enables convenient recessed-wall mounting.

Wide Input Voltage and Variable I/O Ports

UTC-300 series supports a wide input voltage range (12 ~ 30 V) to ensure installation flexibility in any commercial and industrial environment. Various I/O ports provide greater device connection and digital data transfer

High Expandability with Rich Peripheral Support

The pre-perforated removable docking station sections on all four sides enable easy integration for diverse peripherals that allows it to extend system functionality.

UTC-307

7" Slim and Compact All-in-One Touch Computer

- 7" monitor with 16:9 widescreen display
- Built-in Intel® Celeron® N3350/Pentium® N4200
- Fanless, low power system
- Supports swappable HDD/SSD slot (optional)
- Supports PoE technology (optional)
- IP65-rated front panel for water and dust resistance

Key Features

Removable frame design for flexible installation

Instant swappable storage slot

Green and red LED indicators (optional)

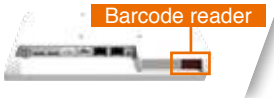
UTC-310

10.1" Slim and Versatile All-in-One Touch Computer

- 10.1" monitor with 16:10 widescreen display
- Built-in Intel® Celeron® N3350/Pentium® N4200
- Fanless, low power system
- Supports PoE technology (optional)
- IP65-rated front panel for water and dust resistance
- Removable frame design for panel mount applications

Key Features

Swappable HDD/SSD slot for quick system maintenance



Built-in 2D barcode reader (optional)

Green and red LED indicators (optional)

UTC-315/318/320

Stylish, Lightweight, All-in-One Touch Computer

- Built-in Intel® Celeron® J1900/Core™ i5-4300U/6300U processor
- 11.6/15.6/18.5/21.5" monitor with 16:9 widescreen display
- Fanless, low-power system
- 1920 x 1080 Full HD resolution
- Wide input voltage (12 ~ 30 V)
- Supports Advantech WISE-PaaS/RMM remote management software

Key Features

IP65-rated front panel for water and dust resistance

Removable frame design for flexible ins tallation

Various peripherals for diverse applications

UTC-500 Series

Rugged, Expandable, All-in-One Touch Computers

True-Flat | 16:9 WIDESCREEN | Full HD | intel | Glass/ PCAP/ Resistive Touch | IP65 | 9H Hardness | Rich I/O | Standard VESA | Wi Fi | Remote Monitoring

OS Support: Windows | Windows Embedded | ANDROID | Linux

10” ~ 42”, Compact, Slim, All-in-One PCs with 16:9 LCD

The compact, slim design and stunning 16:9 widescreen display provide a sleek and stylish appearance, while the wide range of screen sizes ensures installation flexibility.

Excellent Performance with Low Power Consumption

Equipped with an Intel® processor that supports high-performance computing, the UTC-500 fanless system offers quiet and power-efficient operation.

Rugged and Durable Touchscreen

The inclusion of an IP65-rated front panel with antimicrobial glass touchscreen* provides a durable front surface with protection from water and dust ingress.

* Antimicrobial glass touchscreens are only available with UTC-515 and UTC-520 PCAP.

Comprehensive Support for Diverse Applications

Supports multiple OS, various I/O ports, and diverse peripheral options that extend the system functionalities for a wide range of applications.

UTC-515/520/532

All-in-One Touch Computer in a Variety of Sizes

- 15.6/21.5/31.5" monitor with 16:9 widescreen display
- Built-in Intel® Celeron® J1900/Intel® Core™ i5-4300U/6300U/Pentium® N4200 processor
- Fanless, low-power system
- Supports both landscape and portrait screen orientations
- Supports Advantech WISE-PaaS/RMM remote management software

Key Features

IP65-rated front panel for water and dust resistance

Side groove design for flexible peripheral installation

Rich peripherals for diverse applications

UTC-510

Slim, Versatile, All-in-One Touch Computer with PoE Support

- 10.1" monitor with 16:10 widescreen display
- Built-in Intel® Atom™ E3825/Celeron® N2807/J1900/N3350/Pentium® N4200 processor
- Fanless, low-power system
- Removable frame and customizable frame color
- Supports Advantech WISE-PaaS/RMM remote management software

Key Features

IP65-rated front panel for water and dust resistance

PoE support (for UTC-510-PoE)

Various peripherals for system expansion

UTC-542

42.5”, Slim, All-in-One Touch Computer for Interactive Signage

- 42.5" monitor with 16:9 widescreen display
- Built-in Intel® Celeron® J1900/Intel® Core™ i5-6300U/Pentium® N4200 processor
- Fanless, low-power system
- IP65-rated front panel
- Supports both landscape and portrait screen orientations
- Various I/O and peripherals for diverse applications
- Supports Advantech WISE-PaaS/RMM remote management software
- Dual hot-swappable HDD/SSD slots with RAID 0/1 support

Supports mirror coating (mirrored glass/P-CAP touchscreen)

Swappable dual HDD/SSD slots for easy updates

All-in-One Self-Service Kiosks

Advantech's UTC series of all-in-one kiosks are stylish, full-function, fanless, industrial-grade, self-service kiosks. Equipped with the latest Intel® processor, UTC series kiosks provide excellent and stable performance. Built to support various self-service applications, the UTC series all-in-one kiosks are available with various screen sizes, can be integrated with diverse peripherals, and support flexible integration for easy installation. These kiosks enable business owners to deliver unified interactive services that increase customer satisfaction.

Scenarios and Applications

- Restaurant Self-Order Kiosks

- Hotel Self-Check-In Kiosks

- Cinema Self-Ticketing Kiosks

- Bank Member Self-Service Kiosks

- Retail Product Information Kiosks

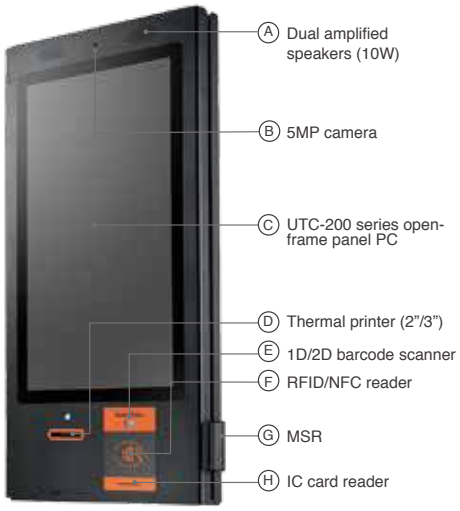
- Public Information Kiosks

UTC-720 Series

UTC-722/723

Slim, Single-Unit, Open Frame Self-Service Kiosks

- Built-in Intel® Core™ i5-6300U processor
- 21.5 and 31.5 ” FHD LCD (1920 x 1080)
- IP65-rated front panel for water and dust resistance
- Glass or P-CAP/resistive touchscreen
- Supports Wi-Fi/Bluetooth connectivity
- Supports Advantech WISE-PaaS/RMM remote management software



Key Features

Side-open design for convenient maintenance

Customizable color to fit various business environments

Supports pole, ceiling, and wall mounting for easy installation

UTC-750 Series

UTC-752

Convertible, Multi-Type, All-in-One Self-Service Kiosks

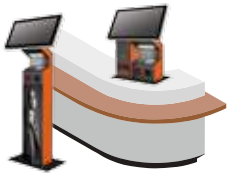
- Built-in Intel® Core™ i5-6300U processor
- 21.5” FHD LCD (1920 x 1080)
- IP65-rated front panel for water and dust resistance
- Supports IDTech payment modules
- Supports Wi-Fi/Bluetooth connectivity
- Supports Advantech WISE-PaaS/RMM remote management software

A Thermal printer (2”/3”)
B NFC reader
C Pin pad
D 1D/2D Barcode Scanner
E MSR/IC Card Reader

Key Features

Supports a secondary monitor for multimedia displays

Integrated payment facility with LED light for convenient use



Flexible installation with multiple stand types

UTK-500 Series

21.5/31.5” Modular All-in-One Self-Service Kiosk

Slim, multipurpose with Double-unit Flexible Combination

Integrated into a slim steel chassis, providing a stylish and neat double-unit solution which can customize component for self-service kiosk applications.

Easy and Flexible Installation with Dual-use of Presentment

UTK-500 series supports several display with standard VESA mounting holes. It also provides dual-use presentment for landscape mode and portrait mode which is easy to install and fully customizable to fit diverse needs of business environment.

Outstanding Versatility for Various Demand

The UTK-500 series integrates various components in an optimized combination to provide outstanding versatility and to save much space for business owners as well as time consumption which also boarden the system functionalities for a wide spectrum of applications.

Excellent Performance and Multiple OS Support

Equipped with latest Intel processor, UTK-500 series delivers high-performance computing. It also supports multiple OS, further increasing the system's overall compatibility and flexibility.

- 21.5/31.5" monitor with 16:10 widescreen and Full-HD display
- Built-in Intel® Core™, Celeron®, and Pentium® processor
- Fanless, low power system
- Supports both landscape and portrait screen orientation
- Screen Type: P-Cap touch/Resistive touch/ Glass(no touch function)
- ˙IP65-rated front panel for water and dust resistance
- Supports Advantech WISE-PaaS/RMM remote management software

Flexible Peripheral Layout with Modular Design

A Wide Range of Peripherals for Diverse Applications

Flexible Installation with Standard VESA

Mobile Tablet Systems

To meet the demands of various industries, Advantech's rugged yet lightweight mobile tablets support long-duration operation and can be easily expanded with the integration of various extension modules. IP65-rated for resistance to water and dust ingress, these tablets offer the capabilities to enhance the customer shopping experience, streamline operations, and increase productivity.

Scenarios and Applications

- Restaurant Checkout Tablets

- Device Management Tablets

- Store Assistant Tablets

- Field Service Tablets

- Self-Service Terminals

- Inventory Management Systems

AIM-35

8" Industrial-Grade Mobile Tablet

- Built-in Intel® Atom™ processor with dual OS (Windows/Android)
- IP65 rating for resistance to water and dust ingress
- Supports various expansion peripherals for diverse applications
- Supports real-time data transmissions via 4G LTE, Wi-Fi, and Bluetooth

1200h IP65 8hr+ NFC

Key Features

Touchscreen supports gloved operation

Supports EMV-certified payment modules

Supports diverse modular peripherals

AIM-38

Industrial-Grade Mobile Tablet

- Built-in Intel® Atom™ X5-Z830 processor with multiple OS
- Support brightness up to 800 nits for outdoor application
- Real-time data transmissions via 4G LTE/Wi-Fi/ Bluetooth
- Support optional expandable peripherals for enhanced functionality

1200h Industiral-grade IP65 4G LTE 800 nits 8hr+

Key Features

Hot-swappable battery design

High-brightness and directly boned touchscreen design

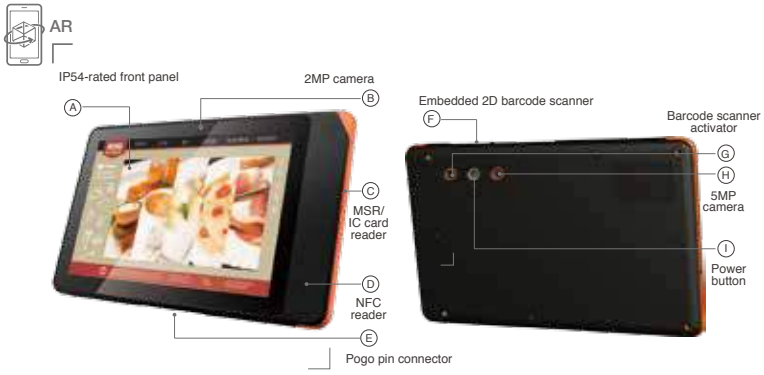
Supports diverse modular peripherals

AIM-37

10" Multi-Functional Mobile Tablet

- Built-in Intel® Atom™ x5-Z8350 processor
- Corning® Gorilla® glass panel offers an MTBF of up to 12,000 hours
- IP54 rating for resistance to water and dust ingress
- Embedded MSR, IC card reader, and NFC reader provide multiple payment options
- Supports Advantech WISE-PaaS/RMM remote management software

1200h 8hr+ NFC Remote Monitoring



Key Features

Directly bonded touchscreen for enhanced visibility

Built-in MSR and 1D/2D barcode scanner

Supports Android and Windows OS

Mobile POS Systems

Aimed at the retail and hospitality industries, Advantech's rugged yet slim and lightweight mobile POS systems offer high expandability for diverse applications, such as self-ordering or shopping assistance operations, to enhance the customer shopping experience, streamline operations, and increase overall productivity.

Scenarios and Applications

- Mini POS Systems

- Self-Check-in Kiosks

- Self-Payment Kiosks

- Restaurant Queuing Terminals

- Self-Ordering Kiosks

- Customer Feedback Terminals

MPOS-350

8” Mobile POS System

- Built-in Intel® Atom™ processor for efficient operation
- Charging cradle equipped with a receipt printer
- Supports real-time data transmissions via 4G LTE/Wi-Fi/Bluetooth
- Supports Windows 10 IoT and Android 6.0

Key Features

Embedded receipt printer

Supports EMV-certified payment modules

Various I/O interface for different applications

MPOS-370

10” Mobile POS System

AR

- Built-in Intel® Atom™ processor for efficient operations
- Charging cradle equipped with a receipt printer
- Embedded MSR, IC card reader, and NFC reader provide multiple payment options
- Supports Windows 10 IoT and Android 6.0

Key Features

Embedded receipt printer

Built-in 2D barcode scanner for coupon scanning

Embedded NFC reader for payment service

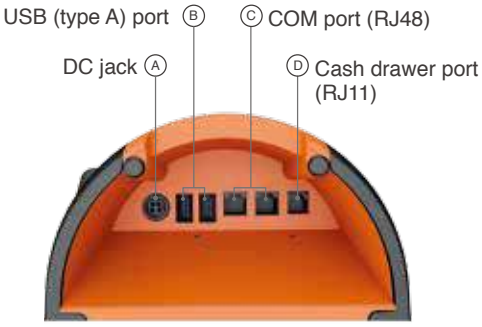
Various Peripherals for AIM Series

Unique Printer Cradle

- Automatic charging via a pogo pin connector for long-duration operation

180-degree adjustable swivel for convenient operation

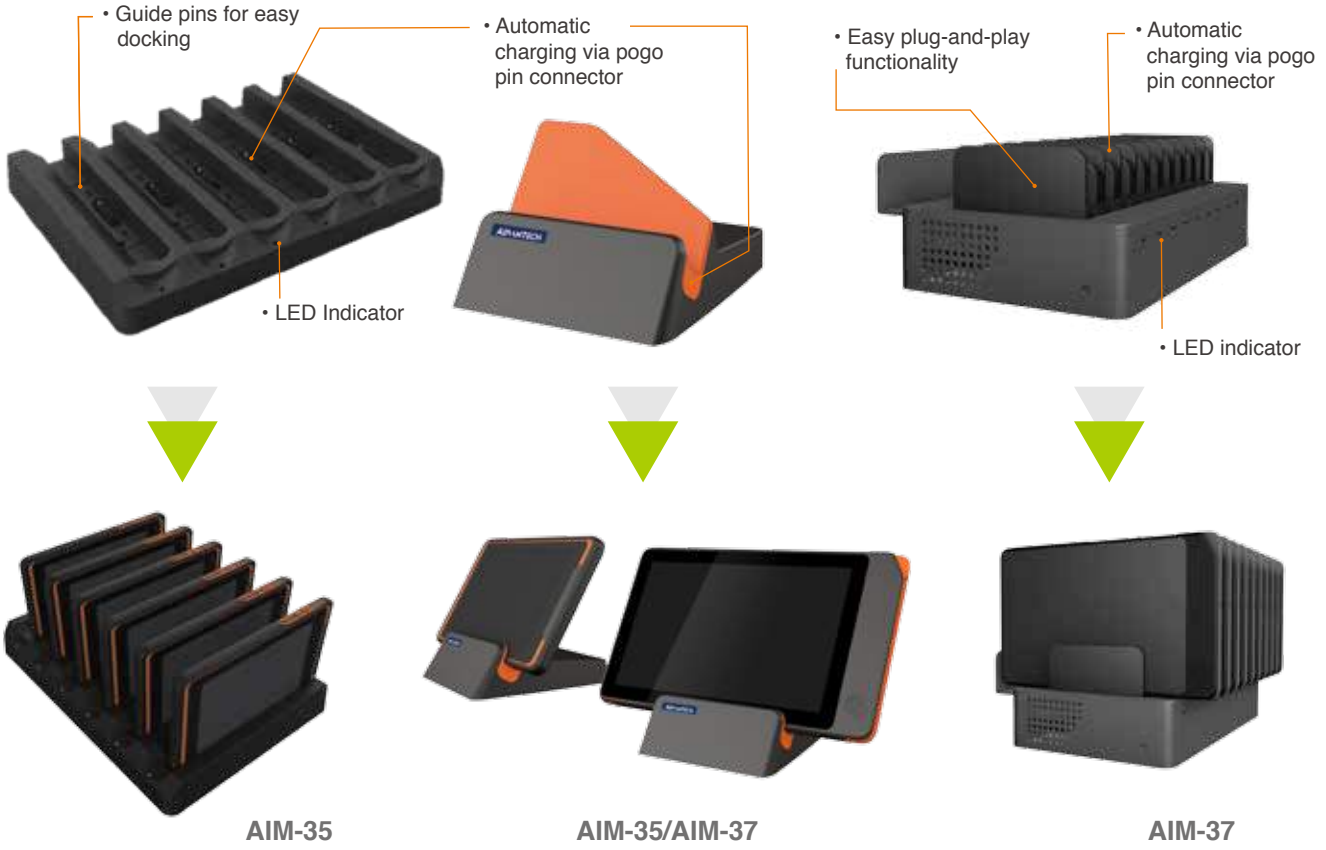
System Description



2-in-1 Carry Hand Strap for AIM-37

Simple Strap for AIM-35

Simple & Multiple-Bay Charger



Extension Modules for AIM-35

Wall Mount Kit

Intelligent POS Systems

Advantech's POS systems offer stylish solutions that can be equipped with various modular peripherals and integrated with remote management software and cloud-based digital signage to support the provision of diverse value-added services that enhance customers' shopping experience. These systems also enable store managers to collect consumer behavior data for subsequent analysis and operational optimization.

Scenarios and Applications

- Intelligent POS Systems

- Information Checking Systems

- Self-Checkout Terminals

- Restaurant Queuing Terminals

- Kitchen Display Systems

- O2O Terminals

Avalo Family

Infinite Possibilities, Unlimited Combinations

True-Flat · 16:9 WIDESCREEN · 4:3 · Full HD · intel · Glass/ PCAP/ Resistive Touch · IP65 · 7H Hardness · Rich I/O · Standard VESA · Wi Fi · Remote Monitoring

Color Options: White Black

OS Support: Windows · Windows Embedded · ANDROID · Linux

Diversified Combination

With innovative expendable Avalo stand, Avalo POS systems conveniently combine with all-in-one computer and VFD or secondary display, which creates infinite possibilities for diversified applications in retail and hospitality industries.

Modularize Stand/Peripheral

Avalo own high expandability with various peripheral support. Easily extend functions by built-in camera and RFID, or combining with rich peripheral, include MSR, iButton,barcode scanner, that meet varieties of applications and customer demands.

User Friendly

Aim to offer friendly user experience, Avalo Family members are designed for easily replacing rear cover and maintaining key module, which greatly saves maintenance time and cost.

USC-130/160

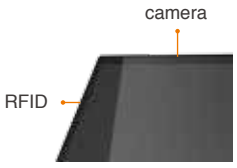
11.6" /15.6" Android POS System

- Supports Android 6.0/Linux OS
- 16:9 widescreen with P-cap
- Diverse peripheral design (MSR, ibutton and barcode scanner)
- IP65-rated front panel for water and dust resistance
- Expendable I/O design for various applications
- Supports panel mount, wall mount and VESA mount
- Supports Advantech WISE-PaaS/RMM remote management software

IP65 MSR 16:9 WIDESCREEN Remote Monitoring

Avalo Family

Key Features



Built in Camera and RFID optional

Ultra-slim and compact design

Easy cable maintenance

USC-250

15" Slim, High-Performace POS System

- Built in Intel® Celeron 3955U/ Core i3-6100U/ i5-6300U processor
- Ultra-slim and LED backlight panel design with PCAP touch
- Low power consumption and fanless operation design
- Support VFD, USC-M3/M6 and various monitors as 2nd display
- Easy peripheral mount design integrated
- Rich I/O and peripherals for diverse applications
- Supports Advantech WISE-PaaS/RMM remote management software

intel IP65 MSR Remote Monitoring

Avalo Family

Key Features

Modularized LEGO design for flexible installation

Easy replacement and maintenance design

Adjustable secondary display

UPOS-211

Compact, All-in-One POS System with Dual-Hinge Stand

- Innovative dual-hinge stand with up to 90-degree tilt flexibility
- Customizable design for enhanced brand promotion
- Expandable I/O interface for diverse applications
- Supports Advantech WISE-PaaS/RMM remote management software

Key Features

Dual-hinge design

Supports secondary displays

Easy-access USB port

UPOS-510

High-Performance Modularized POS System

- Fanless Intel® processor for high-performance computing
- Stylish modularized design ensures easy maintenance
- Highly expandable I/O and superior data storage
- Supports Advantech WISE-PaaS/RMM remote management software

Key Features

Modularized display design for various applications

Supports various secondary displays (when integrated with AIM-37)

Expandable I/O interface and RAID support

UTC-300P

16:9 Widescreen Fanless POS System

- 15.6”/18.5” fanless POS system with 16:9 widescreen display
- Built-in Intel® Celeron® / Core™ i5 processor
- IP65-rated front panel for resistance to water and dust ingress
- Supports Advantech WISE-PaaS/RMM remote management software

Key Features

Foldable stand with dual hinge

Unique mount frame attachment supports peripheral integration

Cost-effective and low-power design

Industrial-Grade Box PCs

Advantech has developed high-performance, fanless, low-power, industrial-grade box PCs that can be integrated with remote management software and cloud-based digital signage systems to support various retail and hospitality applications, such as point-of-sale, digital signage, and store management operations. These devices not only allow customer behavior data to be collected, but also facilitate improved service efficiency.

Scenarios and Applications

- Intelligent POS Systems

- Digital Signage Players

- Self-Service Kiosks

- Mini Server Boxes

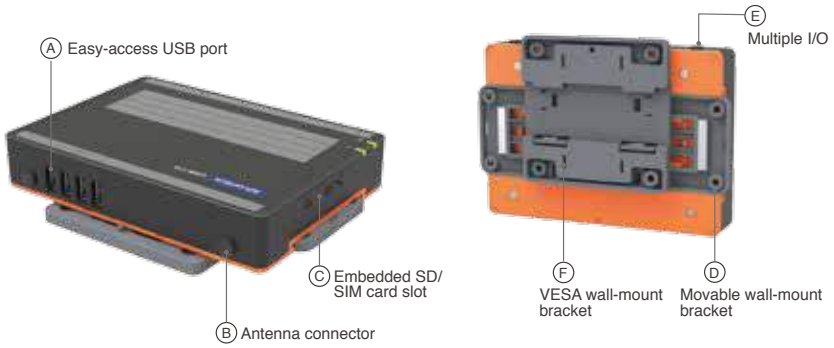
- Kitchen Display Systems

USM-110

Mini Digital Signage Player with RISC Platform

- Built-in ARM® Cortex®-A17 processor
- Supports diverse mount options for easy installation
- Dual displays at Full HD (up to 4K) resolution
- Supports Advantech WISE-PaaS/SignageCMS digital signage content management software

ARM · Space Saving · Lightweight · Daul HDMI



Key Features

Supports Android OS

Dual HDMI for digital signage applications

Support diverse mounting options wall/VESA/magnet/ pole/din-rail

USM-210

Multi-Media Signage Player

- Built-in Intel® Pentium® N4200 processor with fanless operation
- Enables superb graphic performance via FHD video output
- User friendly design for easy maintenance
- Support optional Wi-Fi/4G module for real-time data transmission
- Integrated with WISE-PaaS/SignageCMS Digital Signage Management Software

intel · Space Saving · 4K · Rich I/O

Key Features

Easy access HDD design

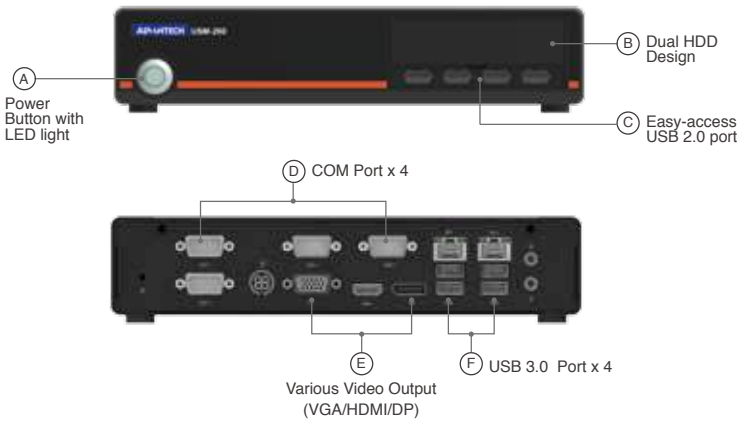
Front USB access design

Support up to 4 x HDMI output

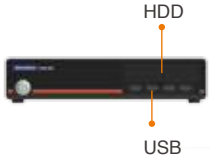
USM-260

Multi-Functional Box PC

- Built-in Intel® Core™ i3-6100TE/ i5-6500TE/ i7-6700TE processor
- Slim and compact design for space saving
- Support dual 2.5" HDD for data backup and easy maintenance
- Enhanced heat dissipation for high reliability
- Integrated with WISE-PaaS/RMM remote management software



Key Features



Easy access USB & HDD design

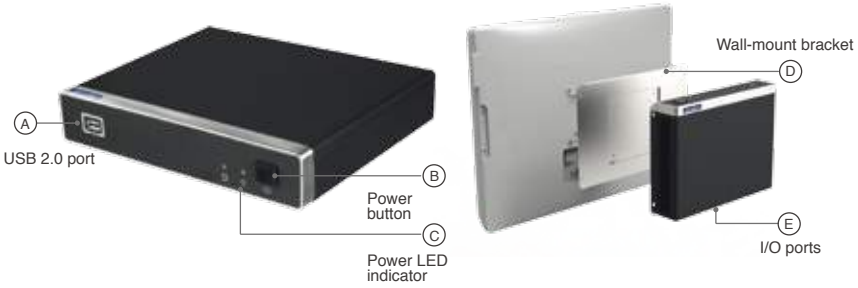
Rich I/O Interface

Support various installation

UBX-310

Intelligent, Fanless POS Box System

- Fanless Intel® Celeron® J1900 / Core™ i5 processor
- Compact and slim design offers installation space savings
- Integrated with Advantech WISE-PaaS/ SignageCMS digital signage software
- Supports Advantech WISE-PaaS/RMM remote management software



Key Features

Slim and lightweight

Multiple I/O ports

Front-facing USB for easy maintenance

Multifunctional Bezel Free P-Cap Touch Monitor

UPOS-M15 *4:3 Stand Along and Base-Mount Type*
USC-M3/M6 *16:9 Compact & Slim Type*

Diversified Applications

• Available with dual hinge stand (for UPOS-M15/ USC-M6)

• Smart combination with box PC as POS application

• Various combination with Avalo stand

Industrial Design

• Supports panel mount/wall mount/VESA mount

• IP65 rated front panel
• P-CAP touch screen

iRetail SRP Ordering Guide

Interactive Digital Signage

	UShop+ Signage Player	UShop+ Signage Server
Solution Type	**Hardware Part Number**	**Software Part Number**
Lite	**UBX-310UDS1-G1E-C** J1900, 4 GB DDR, 500 GB HDD, 1 x VGA, 1 x HDMI	**968SPUDSS0** (UShop+ SignageCMS) interactive functions included
	USM-110 ARM® Cortex®-A17 quad-core, 16GB HDD, 2 x HDMI, Android 6.0	
Standard	**USM-210** Intel® Pentium® N4200 Quad Core, 4 x HDMI, Windows 10	
Pro	**DS-980UDS1-G1E-C** Core i7-6700TE, 8 G RAM, 500 GB HDD, GT730, 3 x HDMI, 3 x HDMI (GT730)	
	DS-980UDS1-S1E-C Core i7-6700TE, 8 G RAM, 64 GB SSD, GT730, 3 x HDMI, 3 x HDMI (GT730)	

Intelligent eMenu Board

	UShop+ eMenu Board Player	UShop+ eMenu Board Server
Solution Type	**Hardware Part Number**	**Software Part Number**
Lite	**DS-080UDS1-G1E-C** J1900, 4 GB DDR, 500 GB HDD, 2 x HDMI	**968SPUDSS0** (UShop+ SignageCMS) interactive functions included
	DS-080UDS1-S1E-C J1900, 4 GB DDR, 64 GB SSD, 2 x HDMI	
Standard	**DS-780UDS1-G1E-C** i3, 4 GB DDR, 500 GB HDD, 3 x HDMI	
	DS-780UDS1-S1E-C i3, 4 GB DDR, 64 GB SSD, 3 x HDMI	

Store Traffic Analytics

Edge Computing Device		Store BI Cloud Report	
Solution Type	**Hardware Part Number**	**Public Cloud Part Number**	**Private Cloud Part Number**
UCAM-2D	**UCAM-120A-U01**	**968SPUSTL0** (annual license fee)	**968SPUSTS0** Max. 25 channels **968SPUSTS1** Max. 50 channels **968SPUSTS2** Max. 300 channels
UCAM-3D	**9680016713**		
Wi-Fi Analysis	**968SPUSWL0** (service activation fee)	**968SPUSWL1** (annual license fee)	**Private clouds not supported**

Store Heatmap Analysis

	Camera	UShop+ EIS	Store BI Cloud Report	
Solution Type	**Hardware Part Number**		**Public Cloud Part Number**	**Private Cloud Part Number**
Store Heatmap Data Direct to Cloud	**UCAM Heatmap UCAM-2F0A-A01**		**968SPUSTL0** (annual license fee)	**968SPUSTS0:** Max. 25 channels **968SPUSTS1:** Max. 50 channels **968SPUSTS2:** Max.300 channels
Heatmap 3 Channels	**Fisheye IP Camera 9680017042**	**USHOP EIS Lite UBX-310UST-G1E-C**	**968SPUSTL1** (annual license fee)	
Heatmap 8 Channels		**USHOP EIS Standard AIMC-342UST-G1E-C**	**968SPUSTL2** (annual license fee)	
Heatmap 16 Channels		**USHOP EIS Pro ACP-2320UST-G1E-C**	**968SPUSTL3** (annual license fee)	

POS Loss Prevention

	Edge Computing	POS CMS	Cloud Web Server		
Solution Type	**Hardware Part Number**	**Software Part Number**	**Public Cloud Part Number**		**Private Cloud Part Number**
Loss Prevention 3 Channel	**UShop EIS Lite UBX-310UST-G1E-C**	**968SPULPM0** (10 user accounts)	**Basic Portal 968SPULL0** (annual license fee)	**Video Portal 968SPULPL1** (annual license fee)	**968SPULPS0:** Max. 25 devices **968SPULPS1:** Max. 50 devices **968SPULPS2:** Max. 300 devices
Loss Prevention 8 Channels	**UShop EIS Standard AIMC-342UST-G1E-C**				
Loss Prevention 16 Channels	**UShop EIS Pro ACP-2320UST-G1E-C**				

UTC Series of All-in-One Touch Computers

Product		UTC-307		UTC-310	
Description		7" Ubiquitous Touch Computer		10.1" Ubiquitous Touch Computer	
Model		UTC-307G		UTC-310G	
System	CPU	Intel® Celeron® N3350	Intel® Pentium® N4200	Intel® Celeron® N3350	Intel® Pentium® N4200
	Cache	1MB	2MB	1MB	2MB
	Memory	1 x SO-DIMM DDR3L 1866 MHz (up to 8 GB)		1 x SO-DIMM DDR3L 1866 MHz (up to 8 GB)	
	HDD	1 x 2.5 external SATA HDD bay		1 x 2.5 internal SATA HDD bay	
Display	Size	7" TFT LCD		10.1" TFT LCD	
	Max. Resolution	800 x 480		1280 X 800	
Touch-screen	Type	Projected capacitive		Projected capacitive	
		-		-	
		Glass Panel		Glass Panel	
I/O Ports	USB	2 x USB3.0 2 x USB3.0 (optional)		2 x USB3.0 2 x USB3.0 (optional)	
	COM	2 x RS-232 COM		2 x RS-232 COM	
	HDMI/VGA	-		-	
	Bus Expansion	1 x M.2 key2230, 1 x M.2 key2242		1 x M.2 key2230, 1 x M.2 key2242	
Net-work	LAN	2 x Gigabit Ethernet (RJ-45)		2 x Gigabit Ethernet (RJ-45)	
OS Support		Win 10 IoT, Android 6.0, Linux Ubuntu 18.04		Win 10 IoT, Android 6.0, Linux Ubuntu 18.04	

Product		UTC-315			UTC-318			UTC-320		
Description		15.6" ubiquitous touch computer			18.5" ubiquitous touch computer			21.5" ubiquitous touch computer		
Model		UTC-315D	UTC-315E	UTC-315F	UTC-318D	UTC-318E	UTC-318F	UTC-320D	UTC-320E	UTC-320F
System	CPU	Intel® Celeron® J1900	Intel® Core™ i5-4300U	Intel® Core™ i5-6300U	Intel® Celeron® J1900	Intel® Core™ i5-4300U	Intel® Core™ i5-6300U	Intel® Celeron® J1900	Intel® Core™ i5-4300U	Intel® Core™ i5-6300U
	Cache	2 MB	3 MB	3 MB	2 MB	3 MB	3 MB	2 MB	3 MB	3 MB
	Memory	1 x SODIMM DDR3L, 1333 MHz (up to 8 GB)		1 x SODIMM DDR4 2133 MHz (up to 16 GB)	1 x SODIMM DDR3L, 1333 MHz (up to 8 GB)		1 x SODIMM DDR4 2133 MHz (up to 16 GB)	1 x SODIMM DDR3L, 1333 MHz (up to 8 GB)		1 x SODIMM DDR4 2133 MHz (up to 16 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	15.6" TFT LCD			18.5" TFT LCD			21.5" TFT LCD		
	Max. Resolution	1366 x 768 (1920 x 1080 optional)			1366 x 768 (1920 x 1080 optional)			1920 x 1080		
Touch-screen	Type	Projected capacitive			Projected capacitive			Projected capacitive		
		Analog 5-wire resistive			Analog 5-wire resistive			Analog 5-wire resistive		
		-			-			Glass panel		
I/O Ports	USB	5 x USB 2.0 1 x USB 3.0	2 x USB 2.0 4 x USB 3.0	2 x USB 2.0 4 x USB 3.0	5 x USB 2.0 1 x USB 3.0	2 x USB 2.0 4 x USB 3.0	2 x USB 2.0 4 x USB 3.0	5 x USB 2.0 1 x USB 3.0	2 x USB 2.0 4 x USB 3.0	2 x USB 2.0 4 x USB 3.0
	COM	1 x RS-232, 1 x RS-232/422/485			1 x RS-232, 1 x RS-232/422/485			1 x RS-232, 1 x RS-232/422/485		
	HDMI/VGA	1			1			1		
	Bus Expansion	1 x Full-size mini PCIe/mSATA			1 x Full-size mini PCIe/mSATA			1 x Full-size mini PCIe/mSATA		
Net-work	LAN	2 x Gigabit Ethernet (RJ45)			2 x Gigabit Ethernet (RJ45)			2 x Gigabit Ethernet (RJ45)		
OS Support		Windows 10 IoT, WES7/8, Linux, Android 4.4	Windows 10 IoT, WES7/8, Linux		Windows 10 IoT, WES7/8, Linux, Android 4.4	Windows 10 IoT, WES7/8, Linux		Windows 10 IoT, WES7/8, Linux, Android 4.4	Windows 10 IoT, WES7/8, Linux	

UTC Series of All-in-One Touch Computers

Product		UTC-220	UTC-232
Description		21.5" open-frame panel PC	31.5" open-frame panel PC
Model		UTC-220F	UTC-232F
System	CPU	Intel® Core™ i5-6300U	Intel® Core™ i5-6300U
	Cache	3 MB	3 MB
	Memory	2 x SODIMM DDR3L, 1600 MHz (up to 16 GB)	2 x SODIMM DDR3L, 1600 MHz (up to 16 GB)
	HDD	1 x 2.5" Internal SATA HDD bay	1 x 2.5" Internal SATA HDD bay
Display	Size	21.5" TFT LCD	31.5" TFT LCD
	Max. Resolution	1920 x 1080	1920 x 1080
Touch-screen	Type	Projected capacitive	Projected capacitive
		Analog 5-wire resistive	Analog 5-wire resistive
		Glass panel	Glass panel
I/O Ports	USB	2 x USB 2.0, 2 x USB 3.0	2 x USB 2.0, 2 x USB 3.0
	COM	2 x RS-232	2 x RS-232
	HDMI/VGA	1 x HDMI, 1 x VGA	1 x HDMI, 1 x VGA
	Bus Expansion	1 x Full-size mini PCIe/mSATA	1 x Full-size mini PCIe/mSATA
Net-work	LAN	2 x Gigabit Ethernet (RJ45)	2 x Gigabit Ethernet (RJ45)
OS Support		Windows 10 IoT, WES7/8, Linux	Windows 10 IoT, WES7/8, Linux

Product		UTC-510		UTC-515			UTC-520		
Description		10.1" ubiquitous touch computer		15.6" ubiquitous touch computer			21.5" ubiquitous touch computer		
Model		UTC-510D	UTC-510D(PoE)	UTC-515D	UTC-515E	UTC-515F	UTC-520D	UTC-520E	UTC-520F
System	CPU	Intel® Atom™ E3825/Celeron® J1900	Intel® Celeron® N2807/J1900	Intel® Celeron® J1900	Intel® Core™ i5-4300U	Intel® Core™ i5-6100U	Intel® Celeron® J1900	Intel® Core™ i5-4300U	Intel® Core™ i5-6300U
	Cache	1 MB/2 MB		2 MB	3 MB	3 MB	2 MB	3 MB	3 MB
	Memory	1 x SODIMM DDR3L, 1066/1333 MHz (up to 8 GB)		1 x SODIMM DDR3L, 1333 MHz (up to 8 GB)	1 x SODIMM DDR3L, 1333/1600 MHz (up to 8 GB)	2 x SODIMM DDR3L, 1600 MHz (up to 16 GB)	1 x SODIMM DDR3L, 1333 MHz (up to 8 GB)	1 x SODIMM DDR3L, 1333/1600 MHz (up to 8 GB)	2 x SODIMM DDR3L, 1600 MHz (up to 16 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 optional)			1920 x 1080		
Touch-screen	Type	Projected capacitive		Projected capacitive			Projected capacitive		
		-		Analog 5-wire resistive			Analog 5-wire resistive		
		Glass panel		Glass panel			Glass panel		
I/O Ports	USB	1 x USB 2.0 1 x USB 3.0	3 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	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
	COM	2 x RS-232		2 x RS-232			2 x RS-232		
	HDMI/VGA	1 x VGA	1 x HDMI	1 x HDMI, 1 x VGA			1 x HDMI, 1 x VGA		
	Bus Expansion	2 x Half-size mini PCIe/mSATA	1 x Full-size, 1 x Half-size mini PCIe/mSATA	1 x Full-size mini PCIe/mSATA			1 x Full-size mini PCIe/mSATA		
Network	LAN	1 x RJ45	2 x RJ45	2 x Gigabit Ethernet (RJ45)			2 x Gigabit Ethernet (RJ45)		
OS Support		Windows 10 IoT, WES7/8, Linux Ubuntu 14.04, Android 4.4		Windows 10 IoT, WES7/8, Linux, Android 4.4	Windows 10 IoT, WES7/8, Linux		Windows 10 IoT, WES7/8, Linux, Android 4.4	Windows 10 IoT, WES7/8, Linux	

UTC Series of All-in-One Touch Computers

Product		UTC-532			UTC-542	
Description		31.5" ubiquitous touch computer			42.5" ubiquitous touch computer	
Model		UTC-532D	UTC-532E	UTC-532F	UTC-542D	UTC-542F
System	CPU	Intel® Celeron® J1900	Intel® Core™ i5-4300U	Intel® Core™ i5-6300U	Intel® Celeron® J1900	Intel® Core™ i5-6300U
	Cache	2 MB	3 MB	3 MB	2 MB	3 MB
	Memory	1 x SODIMM DDR3L, 1333 MHz (up to 8 GB)	1 x SODIMM DDR3L, 1333/1600 MHz (up to 8 GB)	2 x SODIMM DDR3L, 1600 MHz (up to 16 GB)	1 x SODIMM DDR3L, 1333 MHz (up to 8 GB)	2 x SODIMM DDR3L, 1600 MHz (up to 16 GB)
	HDD	1 x 2.5" Internal SATA HDD bay			Dual swappable 2.5" HDD/SSD slots	
Display	Size	31.5" TFT LCD			42.5" TFT LCD	
	Max. Resolution	1920 x 1080			1920 x 1080	
Touch-screen	Type	Projected capacitive			Projected capacitive	
		-			Mirror projected capacitive	
		Glass panel			Mirror glass (no touch function)	
I/O Ports	USB	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	3 x USB 2.0 1 x USB 3.0	2 x USB 2.0 2 x USB 3.0
	COM	2 x RS-232			2 x RS-232	
	HDMI/VGA	1 x HDMI, 1 x VGA			1 x HDMI, 1 x VGA	
	Bus Expansion	1 x Full-size mini PCIe/mSATA			1 x Full-size mini PCIe/mSATA	
Network	LAN	2 x Gigabit Ethernet (RJ45)			2 x Gigabit Ethernet (RJ45)	
OS Support		Windows 10 IoT, WES7/8, Linux, Android 4.4	Windows 10 IoT, WES7/8, Linux		Windows 10 IoT, WES7/8, Linux, Android 4.4	Windows 10 IoT, WES7/8, Linux

Product		UTK-520	UTK-532	UTC-720 series		UTC-750 Series
Description		21.5" Ubiquitous Touch Computer	31.5"" all-in-one kiosk	21.5" all-in-one kiosk	31.5" all-in-one kiosk	21.5" all-in-one kiosk
Model		UTC-520F	UTC-532F	UTC-722F	UTC-723F	UTC-752F
System	CPU	Intel® Core™ i5-6300U		Intel® Core™ i5-6300U	Intel® Core™ i5-6300U	Intel® Core™ i5-6300U
	Cache	3 MB		3 MB	3 MB	3 MB
	System Memory	2 x SO DIMM DDR3L 1600MHz (up to 16 GB)		2 x SODIMM DDR3L, 1600 MHz (up to 16 GB)	2 x SODIMM DDR3L, 1600 MHz (up to 16 GB)	2 x SODIMM DDR3L, 1600 MHz (up to 16 GB)
	HDD	2 x 2.5 internal SATA HDD bay		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	21.5" TFT LCD	31.5" TFT LCD	21.5" TFT LCD	31.5" TFT LCD	21.5" TFT LCD
	Max. Resolution	1920 x 1080		1920 x 1080	1920 x 1080	1920 x 1080
Touch-screen	Type	Projected capacitive		Projected capacitive	Projected capacitive	Projected capacitive
		-		Analog 5-wire resistive	Analog 5-wire resistive	Analog 5-wire resistive
		Glass panel		Glass panel	Glass panel	Glass panel
I/O Ports	USB	2 x USB 2.0, 2 x USB 3.0		2 x USB 2.0, 2 x USB 3.0		
	COM	2 x RS-232		2 x RS-232		
	HDMI/VGA	1 x VGA, 1 x HDMI		1 x HDMI, 1 x VGA		
	Bus Expansion	1 x Full-size mini PCIe/mSATA		1 x Full-size mini PCIe/mSATA	1 x Full-size mini PCIe/mSATA	1 x Full-size mini PCIe/mSATA
Network	LAN	2 x Gigabit Ethernet (RJ45)		2 x Gigabit Ethernet (RJ45)		
Mounting	VESA	200 x 200 mm/7.87 x 7.87 in		200 x 200 mm/7.87 x 7.87 in	200 x 200 mm/7.87 x 7.87 in	100 x 100 mm/3.93 x 3.93 in
OS Support		Windows 10 IoT, WES7/8, Linux		Windows 10 IoT, WES7/8, Linux		
Peripherals		NFC reader (EMV L1-L2), pin pad (EMV L1-L2), chip and magnetic stripe reader (EMV L1-L2), thermal printer, 1D/2D barcode scanner, Camera		NFC reader (EMV L1-L2), pin pad (EMV L1-L2), chip and magnetic stripe reader (EMV L1-L2), thermal printer, 1D/2D barcode scanner		

UTC Series Peripherals and Installation Accessories

Peripherals	Magnetic Stripe Reader	NFC/RFID Reader	Smart Card Reader	1D/2D Barcode Reader	5MP Camera Module	Fingerprint Scanner	iBeacon
UTC-510/542 Series	UTC-510/542P-M	UTC-510/542P-R	UTC-510/542P-S	UTC-510/542P-B	UTC-510/542P-C	UTC-510/542P-F	
UTC-515/520/532 Series	UTC-P02	UTC-P03	UTC-P06	UTC-P07	UTC-P01	UTC-P09	UTC-P08
UTC-300 Series	UTC-300P-M	UTC-300P-R	UTC-300P-S	UTC-300P-B	UTC-300P-C		

Installatoin Accessories

Wall Mount Kit

UTC-WALL-MOUNT1E

UTC-WALL-MOUNT2E

UTC-WALL-MOUNT3E

UTC-WALL-MOUNT4E

Table Stand

UTC-520-STAND1E

UTC-S01-STAND

UTC-S03-STANDE

UTC-300P-D

Floor Stand

UTC-T01-STANDE

UTC-H01-STANDE

Mobile Tablet System

Model		AIM-35	AIM-37	AIM-38
System	CPU	Intel® Atom™ X5-Z8350	Intel® Atom™ X5-Z8350	Intel® Atom™ X7-Z8750
	OS Support	Windows 10 IoT Enterprise, Android 6.0	Windows 10 IoT Enterprise, Android 6.0	Windows 10 IoT Enterprise, Android 6.0
	Memory	2 GB	2 GB	4 GB
Storage		32/64 GB	32 GB	32/64 (default)/128 GB
Display	Size/Type	8" IPS TFT color LCD	10" IPS TFT color LCD	10" IPS TFT color LCD
	Glass Type	Corning® Gorilla® Glass 3 (directly bonded)	Corning® Gorilla® Glass 3 (directly bonded)	Corning® Gorilla® Glass 3 (directly bonded)
	Resolution	WXGA (1200 x 1920)	WXGA (1280 x 800)	FHD LCD (1920x1200)
	Brightness	400 cd/m^2	350 cd/m^2	380 cd/m^2 (800 cd/m^2 optional)
	Touchscreen	10-point capacitive multi-touch with glove mode	10-point capacitive multi-touch with glove mode	10-point capacitive multi-touch with glove mode
External I/O		1 x micro SD (up to 128 GB), 1 x micro USB 3.0 (OTG), 1 x micro HDMI, 1 x AIM dock 16-pin pogo connector, 1 x AIM extension 14-pin pogo connector	1 x micro SD (up to 128 GB), 1 x micro USB 2.0 (OTG), 1 x 6-pin pogo connector (with USB 2.0 and DC in), 1 x Kensington lock, 1 x micro SIM (optional)	1 x USB 3.0, 1 x micro HDMI, 1 x micro SD + SIM slot, 1 x AIM dock 16-pin pogo connector, 1 x AIM extension 14-pin pogo connector, 1 x DC-in jack
Function Buttons		1 x power button, 1 x programmable function button, 2 x volume control buttons	1 x power button, 1 x programmable function button, 2 x volume control buttons (optional)	1 x power button, 1 x programmable function button, 2 x volume control buttons
Communi-cation	WLAN	Internal 802.11 a/b/g/n	Internal 802.11 a/b/g/n (ac is optional)	Internal 802.11 a/b/g/n/ac
	Bluetooth	Bluetooth 4.0 BLE	Bluetooth 4.0 BLE	Bluetooth 4.0 BLE
	GPS	AGPS, GNSS (optional)	AGPS, GNSS (optional)	Beidou (Optional)
	WWAN	Internal 4G/3G mode (optional)	Internal 4G/3G mode (optional)	Internal 4G/3G mode (optional)
	NFC	13.56 MHz, ISO 14443 type A/B, ISO/IEC 15693, MIFARE, FeliCa	13.56 MHz, ISO 14443 type A/B, ISO/IEC 15693, MIFARE, FeliCa	13.56 MHz, ISO 14443 type A/B, ISO/IEC 15693, MIFARE, FeliCa
	MSR	3-track MSR (optional)	3-track MSR (optional)	3-track MSR (Optional module)
	IC Card Reader	5 V smart card (optional)	5 V smart card (optional)	5 V smart card (optional)
Color		black/orange	black/orange	black/orange
Battery		5060 mAh	7900 mAh	7900mAH Hot-Swappable with capacity LED indicators
Dimensions		142 x 239 x 14.5 mm	290 x 176 x 17.4 mm	290 x 176 x 17.4 mm
Weight		800 g	900 g	930 g

MPOS/Tablet Peripherals

Model	AIMP511A0	AIM-EXTO-0046	AIM-BAT0-0252
Description	• 20 degree 2D arcode scanner • Color : Black • Demiension: 130.2 x 38.7 x 27.8mm • Weight 0.042 kg	• LAN & COM module • Color : Black • Demiension: 130.2 x 70 x 29 mm • Weight 0.078 kg	• Battery with Meter (1 pcs) • Color : Black • Demiension: 98 x 84.5 x 6.5 mm • Weight 0.104 kg
Application Scope	AIM-35	AIM-35	AIM-35

Model	AIM-P502	AIM-P505	AIM-P705
Description	Basic charger	6-in-1 multi-bay charging station	10-in-1 multi-bay charging station
LED Indicator	Orange (LED light emitted when tablet is docked)	Orange (LED light emitted when tablets are docked)	Orange (LED light emitted when tablets are docked)
Charge Method	Via pogo pin	Via pogo pin	Via pogo pin
Max. Charging Power	5 V/3A	5 V/3A	5 V/3A
Max. Tablet Thickness	34 mm	34 mm	34 mm
Dimensions	180 x 140 x 120 mm (charger only) 180 x 290 x 250 mm (with tablet)	373.6 x 250 x 126 mm (charger only) 373.6 x 250 x 247 mm (with tablet)	374.4 x 251.5 x 133.6 mm (charger only) 374.4 x 293.6 x 254.5 mm (with tablet)
Power Supply	110 ~ 250 VAC, 240W	110 ~ 250 VAC, 240W	110 ~ 250 VAC, 240W
Application Scope	AIM-35/37	AIM-35	AIM-37

Mobile POS System

Model		MPOS-350	MPOS-370
System	CPU	Intel® Atom™ X5-Z8350	Intel® Atom ™ X5-Z8350
	OS Support	Windows 10 IoT Enterprise, Android 6.0	Windows 10 IoT Enterprise, Android 6.0
	Memory	2/4 GB	2/4 GB
Storage		32/64 GB	32/64 GB
Display	Size/ Resolution	8" TFT IPS LCD panel/ WXGA (1200 x 1920)	10" IPS TFT LCD panel/ WXGA (1200 x 1920)
	Brightness	400 cd/m²	350 cd/m²
	Touchscreen	Corning® Gorilla® Glass 3 with 10-point capacitive multi-touch and glove mode	Corning® Gorilla® Glass 3 with 10-point capacitive multi-touch and glove mode
External I/O		1 x micro SD (up to 128 GB), 1 x micro USB 3.0 (OTG), 1 x micro HDMI, 1 x AIM dock 16-pin pogo connector, 1 x AIM extension 14-pin pogo connector, 2 x USB 2.0 (type A), 2 x COM (RJ48), 1 x cash drawer (RJ11)	1 x micro USB 2.0 (OTG), 1 x 6-pin pogo connector (with USB 2.0 and DC in), 1 x Kensington lock, 1 x micro SIM (optional), 2 x USB 2.0 (type A), 2 x COM (RJ48), 1 x cash drawer (RJ11)
Function Buttons		1 x power button, 1 x programmable function button, 2 x volume control/open door/feed paper buttons	1 x power button, 1 x programmable function button, 2 x volume control/open door/feed paper buttons (optional)
Communi-cation	WLAN	Internal 802.11 a/b/g/n	Internal 802.11 a/b/g/n (a/c optional)
	Bluetooth	Bluetooth 4.0 BLE	Bluetooth 4.0 BLE
	GPS	AGPS, GNSS (optional)	AGPS, GNSS (optional)
	WWAN	Internal 4G/3G mode (optional)	Internal 4G/3G mode (optional)
	NFC	13.56 MHz, ISO 14443 type A/B, ISO/IEC 15693, MIFARE, FeliCa	-
	MSR	3-track MSR (external module)	3-track MSR
	IC Card Reader	5 V smart card (external module)	5 V smart card
Color		black, orange	black, orangee
Battery		5600 mAh	7900 mAh
Dimensions		Tablet: 142 x 239 x 14.5 mm Cradle: 151 x 152 x 318 mm	Tablet: 290 x 176 x 17.4 mm Cradle: 151 x 152 x 318 mm
Weight		Tablet: 800 g Cradle: 2 kg	Tablet: 900 g Cradle: 2 kg

Model	AIM-P701A0
Description	Printer cradle
Swivel Range	80-degree rotation
Pogo Pin	USB 2.0 5 V/3A charger
Paper Width	80/58 mm 3.14/2.28 in
Paper Roll	Diameter: 70 mm
Printing Speed	200 mm/sec
Paper Cutter	Auto cut
Buttons	Open door, feed paper
LEDs	Power, error indicators
I/O Ports	1 x DC in, 2 x USB 2.0 (type A), 2 x COM (RJ48), 1 x cash drawer (RJ11)
Dimensions	151 x 152 x 318 mm
Operating Temperature	0 ~ 40 °C/32 ~ 104 °F
Storage Temperature	-10 ~ 60 °C/14 ~ 140 °F
Operating Humidity	5 ~ 95%, non-condensing
Applicable Scope	AIM-37

MPOS/Tablet Peripherals

Hand/Shoulder Strap		Wall Mount Kit	
AIM-35	AIM-37	AIM-35	AIM-37

M-SRP0-0000 Scope

AIM-SRP0-0001

AIM-P702

AIM-P503

AIM-P703

Model	AIM-P704	AIM-P511A0	AIM-EXTO-0046	AIM-BAT0-0252
Description	Active stylus	• 20 degree 2D barcode scanner • Color: Black • Dimensions: 130.2 x 38.7 x 27.8 mm • Weight: 0.042 kg	• LAN + COM module • Color: Black • Dimensions: 130.2 x 70 x 29 mm • Weight: 0.078 kg	• Battery with meter (1 pcs) • Color: Black • Dimensions: 98 x 84.5 x 6.5 mm • Weight: 0.104 kg
Application Scope	AIM-35/37	AIM-35	AIM-35	AIM-35

Intelligent POS/Box PCs

Model		USC-130/160	USC-250	UPOS-211
System	CPU	Rockchip ARM Cortex-A17 RK3288 Quad core up to 1.6GHz	Skylake-U, i5-6300U/CORE i3-6100U/Celeron 3955U	Intel® Celeron® J1900/Core™ i3/i5
	OS	Android 6.0 and Linux	POSReady 7, Windows 7 Pro, Windows 8.1 Pro (64-bit), Windows 10 IoT Enterprise, Linux Kernel 3.13 or above	Windows 10 IoT Enterprise, Win 7/8 Pro, POSReady 7, Linux Kernel 3.13, Android 4.4
Storage		8GB on board eMMC Micro SD(up to 32GB)	2 x M.2 2242/mSATA	1 x 2.5" SATA HDD/SSD bay/mSATA
Display	Size	USC-130: 11.6" TFT LCD (1366x768) USC-160:15.6" TFT LCD (1366x768 /1920x1080 optional)	15" TFT LCD Display (1024 x 768)	15" TFT LCD (1024 x 768)
	Brightness	USC:130:250 cd/m^2 USC-160: 250cd/m2 (300 cd/m2 optional)	300 cd/m^2	250 cd/m^2
	Touchscreen	P-CAP	P-CAP. Flat Glass	5-wire resistive/P-CAP
External I/O	COM	1xCOM	4 x COM	2 x COM (up to 5 max.)
	USB	2xUSB 2.0 (max to 4xUSB 2.0) 1xUSB OTG	4 x USB 3.0 / 2 x USB 2.0 / 3 x Micro-USB (max. up to 11 x USB 3.0)	1 x USB 3.0, 2 x USB 2.0 (up to 7 x USB 2.0 max.)
	Output	1xHDMI	1 x VGA	1 x VGA/DP
	Ethernet	1xRJ45	2 x RJ45	1 x RJ45
	Cash Drawer	NA	1 x RJ11 (12/24V)	1 x RJ11 (12/24 V)
	Audio	1xLine out , 1xmic in	1 x Line out, 1 x mic in	1 x line out, 1 x mic in
	Speaker	USC-130:1x2W speaker USC-160:2x2W speaker	1 x 2W speaker	1 x 2W speakers
OS Support Kiosk	Secondary Display	• USC-130: 11.6" TFT LCD(Avalo stand) • USC-160: VFD • 1.6" TFT LCD (rear) • 15.6" TFT LCD(Avalo stand)	• VFD • 11.6"/15.6" TFT LCD (rear)	• VFD • 7"/10.1" TFT LCD (rear) • 12"/15" TFT LCD (pole)
	Peripherals	MSR/ IC Card Reader/ NFC, NFC/Camera-embedded peripheral	MSR/ IC Card Reader/ NFC, Barcode Scanner / Camera	MSR, MSR + fingerprint scanner, MSR + RFID, MSR + iButton, MSR + IC card reader
Connectivity		WiFi (802.11a/b/g/n) or Bluetooth	-	Wi-Fi (802.11b/g/n) or Bluetooth
Color		Black/White	Black/White	orange/black/white
IP Rating		IP65 (Front Panel)	IP65 (Front Panel)	IP65 (front panel)
Dimensions/Weight		USC-130: 295x190x34mm/2kg USC-160: 384x239x34mm/3.5kg	352 x 276 x 46 mm/ 6.9kg	354 x 327 x 237 mm/5.2 kg

Model		UPOS-510	UTC-315P	UTC-318P
System	CPU	Intel® Celeron® J1900/Core™ i3/i5	Intel® Celeron® J1900/Core™ i5	Intel® Celeron® J1900/Core™ i5
	OS	Windows 10 IoT Enterprise, Win 7, POSReady 7, Linux Kernel 3.13, Android 4.4	Windows 10 IoT Enterprise, Win 7, POSReady 7	Windows 10 IoT Enterprise, Win 7, POSReady 7
Storage	HDD	1 x 2.5" SATA HDD/SSD bay/mSATA	1 x 2.5" SATA HDD/SSD bay/mSATA	1 x 2.5" SATA HDD/SSD bay/mSATA
Display	Size	15" TFT LCD (1024 x 768)	15.6" TFT LCD (1024 x 768)	18.5" TFT LCD (1024 x 768)
	Brightness	250 cd/m^2	200 cd/m^2	250 cd/m^2
	Touchscreen	P-CAP	5-wire resistive/P-CAP	5-wire resistive/P-CAP
External I/O	COM	2 x COM	2 x COM	2 x COM
	USB	1 x USB 3.0, 2 x USB 2.0 (up to 7 x USB 2.0 max.)	1 x USB 3.0, 3 x USB 2.0 (up to 4 x USB 3.0 max.)	1 x USB 3.0, 3 x USB 2.0 (up to 4 x USB 3.0 max.)
	Output	1 x VGA or HDMI	1 x VGA/HDMI	1 x VGA/HDMI
	Ethernet	1 x RJ45	1 x RJ45	1 x RJ45
	Cash Drawer	1 x RJ11 (12/24 V)	1 x RJ11 (12/24V)	1 x RJ11 (12/24V)
	Audio	1 x line out, 1 x mic in	1 x Line out, 1 x mic in	1 x Line out, 1 x mic in
	Speaker	1 x 2W speakers	2 x 1W speaker	2 x 1W speaker
Expansion Options	Secondary Display	• VFD • 7"/10.1" TFT LCD (rear) • 12"/15" TFT LCD (pole)	• VFD • 7"/10.1" TFT LCD (rear) • 15" TFT LCD (pole)	• VFD • 7"/10.1" TFT LCD (rear) • 15" TFT LCD (pole)
	Peripherals	MSR, MSR + fingerprint scanner, MSR + RFID, MSR + iButton, MSR + IC card reader	MSR, IC card reader, NFC reader, barcode scanner, camera	MSR, IC card reader, NFC reader, barcode scanner, camera
Connectivity		Wi-Fi (802.11b/g/n) or Bluetooth	-	-
Color		orange/black/white	black/white	black/white
IP Rating		IP65 (front panel)	IP65 (front panel)	IP65 (front panel)
Dimensions/Weight		354 x 197 x 384 mm/6.5 kg	401 x 327 x 43.5 mm/ 6.5kg	475 x 400 x 43.5 mm/ 6.5kg

Intelligent POS/Box PCs

Model		UBX-310	USM-110	USM-210	USM-260
System	CPU	Intel® Celeron® J1900/Core™ i3/i5	ARM® Cortex®-A17 quad-core, up to 1.8 GHz	Intel® Pentium® N4200 Quad Core Up to 2.5GHZ	"Intel® Core™ i3-6100TE/i5-6500TE/i7-6700TE"
	OS Support	Windows 10 IoT Enterprise, Win 7/8	Android 6.0	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise, Win 7, POSReady 7
Memory		-	2G	8G	TBD
Storage	HDD	1 x 2.5" SATA HDD/SSD bay	EMMC 16 GB + micro SD expansion slot	1 x 2.5" SATA HDD/SSD bay	2 x 2.5" SATA HDD/SSD bay
	mSATA	Yes	-	Yes	Yes
Display	Max. Resolution	1920 x 1200	3840 x 2160 (4K)	3840 x 2160 max. (4K)	Max. HDMI:4096 x 2160 @ 24 Hz Max. DP: resolution 4096 x 2160 @ 60Hz Max. VGA: resolution 1920 x 1200 @ 60 Hz Dual Display(DP+HDMI, DP+VGA, HDMI+VGA)
External I/O	Serial Port	3 x COM	1 x COM	2 x COM	4 x COM
	USB Port	5 x USB 2.0	1 x OTG USB, 2 x USB 2.0	2 x USB 3.0, 2 x USB 2.0	4 x USB 3.0, 4 x USB2.0
	Output	2 x VGA, 1 x HDMI 1 x VGA, 2 x HDMI	2 x HDMI	4 x HDMI	1 x VGA/DP/HDMI
	Ethernet	1 x RJ45	1 x RJ45	2 x RJ45	2 x RJ45
	12 V Connector	-	-	-	-
	Audio	1 x line out, 1 x mic in	1 x line-out	1 x Line out, 1 x mic in	1 x Line out, 1 x mic in
	Printer Port	Optional	-	-	-
	Others	-	2 x LED Inndicators, 1 x SD Slot	2 x Antenna hole	-
Extension		2 x mini PCIE	1 x mini PCIE (3G/4G)/1 x M.2 (Wi-Fi)	M.2 E-key 2230 for wifi M.2 B-key 2280 for storage or 4G (auto detect)	1 H/S miniPCIe
Optional Modules	Peripherals	10.1/15" TFT LCD (touch/non-touch)/cash drawer/printer	-	Yes	Yes
Mounting	Mount Options	Stand, wall, pole	Stand, wall, pole	Wall mount	Yes
Color		Black	Black	Black	Black
Dimensions/Weight		245 x 185 x 45 mm/2.0 kg	155.8 x 120 x 31 mm/1.0 kg	230(W) x 195(L) x 38(H)mm	TBD

UPOS/Box PC Peripherals

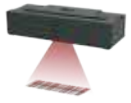
Peripherals	MSR
Add-On Peripherals	 （USC only）

Peripherals	SR + iButton
Add-On Peripherals	 （USC only）

Peripherals	MSR + RFID
Add-On Peripherals	

Peripherals	MSR + Fingerprint Scanner
Add-On Peripherals	

Peripherals	MSR + IC Card Reader
Add-On Peripherals	

Peripherals	Barcode Scanner
Add-On Peripherals	

Peripherals	10.1" Monitor
Model	 • 10.1" LCD monitor (1024 x 768) • 200 cd/m² • 240 x 270 x 606 mm • 3.6 kg

Peripherals	15" Touch Monitor
Model	 • 15" TFT LCD (1024 x 768) • 250 cd/m² • 278 x 354 x 53 mm

Peripherals	11.6"/15.6" Touch Monitor
Model	 • 11.6" /15.6" TFT LCD (1366x768) • 250 cd/m²

Peripherals	Printer
Model	 • Printing speed 300mm/s • Paper width 79.5±0.5mm • Paper roll diameterΦ80mm • Interface USB+Serial+ Ethernet • 200×145×142mm

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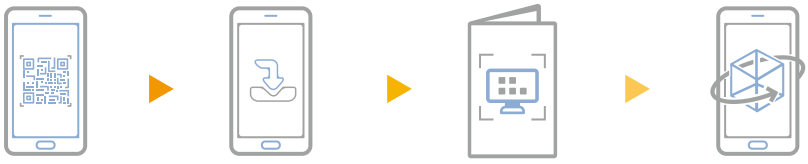

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