Application Scenarios

Embedded Computing
- Way-finding kiosk
- Self-checkout kiosk
- Monitor
- POS system
- Video AI server

Digital Signage
- Male/Female
- Gender:
- Age:
- Duration:
- Number of visits:

Edge Computing
- IoT gateway and sensor
- Edge intelligence

Product Specifications

Product | USM 30 | USM 50 | USM 60
--- | --- | --- | ---
Processor | 6th gen. Intel® Core™ i3-6100U/i5-6300U | 6th gen. Intel® Core™ i3-6100U/i5-6300U | 8th/9th gen. Intel® Core™ i5-8500T/i3-9100TE/i5-9500TE/i7-9700TE

Display | 1 x VGA (up to SXGA 2560 x 1600 @ 60 Hz) | 1 x HDMI (4096 x 2160 @ 24 Hz) | 1 x HDMI 1.4, 4096 x 2160 @ 24 Hz

Storage | 1 x 2.5” SATA 3.0 HDD/SSD | 1 x 2.5-inch SATA 2.0 HDD/SSD | 2 x 2.5” SATA 3.0 HDD/SSD

Memory | 2 x DDR4 2133 MHz, up to 16GB | 2 x DDR3L 1600 MHz, up to 8GB | 2 x DDR4 2133 MHz, up to 32GB

Power | 5V/RI support for each smart VDD module | - | 2 x Full-size mini PCIe, 2 x PCIe x16, or 3042 for 4G (auto detect)

Online Catalog

www.advantech.com

USM Box PC Series

Edge Intelligence for Retail and Hospitality

Workload Consolidation

AI Expansion

Digital Signage

Edge Computing

Self-ordering kiosk

Self-checkout kiosk

Interactive digital signage

Way-finding kiosk
**Edge Intelligence Box PCs**

**About the USM Series**

Aimed at markets that require cost-effective high-performance computing, Advantech’s USM box PC series are ultra-compact devices equipped with the latest Intel processors to support diverse functions. These PCs are highly extendible and can be integrated with various peripherals to facilitate a wide range of retail and hospitality applications.

**Features**

- **Multiple I/O facilitates a variety of applications**
- **Compatible with extension modules and PCIe devices**
- **Additional peripherals can be easily integrated**
- **Multiple mount options for flexible installation**
- **Added-value support for software, such as DeviceOn**

**WISE-DeviceOn**

Always Connected To Value

*The USM series are equipped with Advantech’s WISE-DeviceOn remote management software for increased operational efficiency and to facilitate software and hardware integration.*

**Remote Management**

- Real-Time Monitoring
  - Connection/hardware status
  - Software/peripheral status
  - Failure notifications
- Remote Control
  - Power controls
  - Audio, backlight controls
  - Software controls
- Troubleshooting
  - Screenshots
  - Remote desktop

**Digital Signage**

**AI Expansion**

**Mini Edge Workstation**

**About the USM Series**

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**Digital Signage**

**AI Expansion**

**Mini Edge Workstation**
**Features**

- **Remote Management**
- **Edge Computing**
- **AI Expansion**

**Mini Edge Workstation**

- Multiple mount options (wall, pole, DIN rail, magnet, VESA)
- Ultra-compact RISC-based signage player offers powerful computing and efficient operation
- Supports diverse mount options for easy installation
- HDMI 2.0 up to 3840 x 2160 resolution; HDMI 1.4 up to 1920 x 1080 resolution

**Mini Edge Workstation**

- USM-110
  - Full HD video output provides superb graphics performance
  - User-friendly design ensures easy maintenance
  - 4K independent display @ 30fps, 4 x 1080p, 2x2 video wall with one 4K video

- USM-210
  - Easy-access HDD/SSD

**Digital Signage**

- USM-260
  - Intel® Core™ i3-6100TE/i5-6500TE/i7-6700TE processor
  - Compact, slim design (with fan) saves installation space
  - 2 x easy-access 2.5” HDD/SSD Tray for data backups
  - Dual displays: DP+HDMI, DP+VGA, or HDMI+VGA
  - Supports WISE-DeviceOn software
  - Power controls
  - Audio, backlight controls
  - Software controls

**AI Expansion**

- USM-500R
  - 8th/9th gen. Intel® Core™ i5-8500T processor offers high-performance computing
  - PCIe slot support NVIDIA, Intel Movidius™, and VEGA series GPUs
  - High expandability with 4 additional PCIe slots for integrating a graphics card, capture card, or FPGA card
  - Reliable platform enables edge computing and AI/graphics processing

**About the USM Series**

Aimed at markets that require cost-effective high-performance computing, Advantech’s USM box PC series are ultra-compact devices designed to support diverse functions. These PCs are highly extendible and can be integrated with various peripherals to facilitate a wide range of retail and hospitality applications.
Edge Intelligence Box PCs

About the USM Series

Aimed at markets that require cost-effective high-performance computing, Advantech’s USM box PC series are ultra-compact devices equipped with the latest Intel® processors to support diverse functions. These box PCs are highly extensible and can be integrated with various peripherals to facilitate a wide range of retail and hospitality applications.

USM-110

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- Supports diverse mount options for easy installation
- HDMI 2.0 up to 3840 x 2160 resolution; HDMI 1.4 up to 1920 x 1080 resolution
- USM-110

USM-210

- Full HD video output provides superb graphics performance
- User-friendly design ensures easy maintenance
- 4K independent display @ 30fps, 4 x 1080p, 2x2 video wall with one 4K video
- USM-210 USM-500R

USM-500R

- 8th/9th gen Intel® Core™ i processors
- 2 x smart VDD boards for host management, edge computing, and AI introduction
- High expandability with up to 3 PCIe slots
- Supports Advantech’s Myria X VEGA Series, video capture cards (DVP Series), NVIDIA GPU cards, and FPGA cards
- USM-500R

Features

- Multiple I/O facilitates a variety of applications
- Compatible with extension modules and PCIe devices
- Additional peripherals can be easily integrated
- Multiple mount options for flexible installation
- Added-value support for software, such as DeviceOn

Remote Management

- Real-Time Monitoring
  - Connection/device/hardware status
  - Software/hardware status
  - Failure notifications
- Remote Control
  - Power controls
  - Audio, backlight controls
  - Software controls
- Troubleshooting
  - Screen/USB troubleshooting
  - Remote desktop

WISE-DeviceOn

- Always Connected To Value

The USM series are equipped with Advantech’s WISE-DeviceOn remote management software for increased operational efficiency and to facilitate software and hardware integration.

Digital Signage

- Multiple I/O facilitates a variety of applications
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关于USM系列

针对需要成本效益和高性能计算的市场，Advantech的USM盒式PC系列是超紧凑型设备，配备了最新的Intel®处理器，以支持各种功能。这些盒式PC非常可扩展，可以集成各种外设，以支持一系列零售和 hospitality应用。

USM-110

- 超紧凑的RISC型标志显示器，具备强大的计算能力及高效的运行性能
- 支持多种安装方式，便于安装
- HDMI 2.0最高可达3840 x 2160分辨率；HDMI 1.4最高可达1920 x 1080分辨率
- USM-110

USM-210

- 全高清视频输出提供卓越的图形性能
- 用户友好型设计便于维护
- 4K独立显示@30fps，4 x 1080p，2x2视频墙与一个4K视频
- USM-210 USM-500R

USM-500R

- 8th/9th代Intel® Core™ i处理器
- 2 x智能VDD板，用于主机管理，边缘计算和AI引入
- 高可扩展性，最高可支持3个PCIe槽
- 支持Advantech的Myria X VEGA系列、视频捕获卡（DVP系列）、NVIDIA GPU卡和FPGA卡
- USM-500R

特性

- 多个I/O支持多种应用
- 兼容扩展模块和PCIe设备
- 可以轻松集成额外的外设
- 多个安装选项支持灵活安装
- 为软件提供增值服务，如DeviceOn

远程管理

- 实时监控
  - 连接/设备/硬件状态
  - 软件/硬件状态
  - 失败通知
- 远程控制
  - 电源控制
  - 音频/背光控制
  - 软件控制
- 故障排除
  - 屏幕/USB故障排除
  - 远程桌面

WISE-DeviceOn

- 总是连接到价值

USM系列配备了Advantech的WISE-DeviceOn远程管理软件，以提高操作效率，并便于软件和硬件集成。

数字标牌

- 多个I/O支持多种应用
- 实时监控
  - 连接/设备/硬件状态
  - 软件/硬件状态
  - 失败通知
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  - 软件控制
- 故障排除
  - 屏幕/USB故障排除
  - 远程桌面
# Application Scenarios

- Embedded Computing
- Digital Signage
- Edge Computing

## Product Specifications

<table>
<thead>
<tr>
<th>Product</th>
<th>USM-300</th>
<th>USM-500</th>
<th>USM-700</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Intel® Celeron® J1900</td>
<td>Intel® Celeron® J3455</td>
<td>Intel® Celeron® J6400</td>
</tr>
<tr>
<td>Display</td>
<td>1 x HDMI, 2 x DP, 2 x RJ-45, 1 x COM, 4 x USB 2.0, 2 x Power Switch, 2 x USB 3.0</td>
<td>1 x HDMI, 2 x DP, 2 x RJ-45, 1 x COM, 2 x USB 3.0, 2 x Micro SD extension</td>
<td>1 x HDMI, 2 x DP, 2 x RJ-45, 1 x COM, 2 x USB 3.0, 2 x SIM card slot</td>
</tr>
<tr>
<td>Storage</td>
<td>1 x 2.5-inch SATA 2.0 HDD/SSD</td>
<td>1 x 2.5-inch SATA 3.0 HDD/SSD</td>
<td>1 x microSD, 1 x microSD, 1 x microSD</td>
</tr>
<tr>
<td>Memory</td>
<td>4 x USB 2.0</td>
<td>4 x USB 2.0, 1 x PS/2, 1 x M.2 M-key, 1 x M.2 E-key</td>
<td>4 x USB 2.0, 1 x PS/2, 1 x M.2 M-key, 1 x M.2 E-key</td>
</tr>
<tr>
<td>Power</td>
<td>ATX 12V, 19V</td>
<td>ATX 12V, 19V</td>
<td>ATX 12V, 19V</td>
</tr>
</tbody>
</table>

Software

- Windows 7/10, POSReady 7, Android 6.0
- Window 10/8.1/Ubuntu 16.04
- Windows 10, Android 8.1, Linux 4.4

Expansion

- 2 x Full-size mini PCIe
- 1 x PCIe x16, 1 x PCIe x4, 1 x PCIe x1
- 1 x 2.5” SATA 3.0 HDD/SSD

**Online Catalog**

- **Workload Consolidation**
- **AI Expansion**
- **Edge Computing**
- **Digital Signage**

**Digital Signage**

- Edge Intelligence
- www.advantech.com

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**Enabling an Intelligent Planet**

www.advantech.com