

Software Distribution Solutions

Cross-Platform OS and Security Protection

- Trusted Software Partners
- Value-added Tools
- Application Stories



ADVANTECH

Enabling an Intelligent Planet

www.advantech.com



Advantech Software Distribution Solutions

Your trusted software partner

Advantech offers Microsoft Windows IoT OS, Trellix Security for IoT, and Acronis Backup and Recovery for use in embedded systems requiring heightened security. We have achieved over 10,000,000+ software licens shipments to date. Additionally, Advantech provides exclusive Windows tools like Advantech PowerSuite and Trellix Whitelisting Manager, making it easier to configure Windows embedded features and whitelist updates. As an authorized global distributor, we offer solutions and services to meet design needs, aiding customers in integrating hardware and software while supporting the latest open-source projects and technologies.

Windows 10 IoT Lockdown

- Device lockdown
- Unified write filter
- Keyboard filter
- Logon option

OS Enhancement Utility

- Device/USB control
- Windows update off
- Soft real-time setting
- Kiosk mode



OS Image Backup & Recovery

- Environment setting
- OS backup
- OS recovery

Windows Admin Center

- Server IPMI support
- Remote HW accessed by SUSI API
- Advanced lockdown feature



Benefits of buying licensed software from Advantech

Microsoft | Windows IoT

- 10-Year Warranty
- CPU Adaptive Product
- Real-Time Technical Support

Advantech Exclusive

Value-added tool :
Advantech PowerSuite Utility



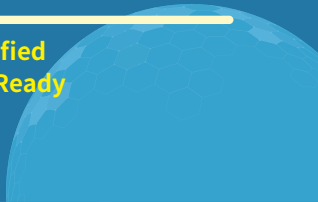
- 10-year life cycle and technical support period
- The kernel of Windows IoT is the same as the general Windows version
- Small footprint, rapid deployment and offline operation
- Support Windows Copilot (Windows 11 IoT)
- Choose OS version based on CPU for cost-effectiveness
- Provides lockdown functions for specific industrial applications

Microsoft | Windows on Arm

- Cross-platform Compatibility
- Long Battery Life
- Balance of Performance and Efficiency

Advantech Exclusive

Advantech's device officially certified
by Microsoft as Windows on Arm Ready



- Cost-effective options for low-load devices
- Customize images for specific functionalities and reduce the footprint
- Provide longer battery life for mobile devices and energy-saving environments
- Offer broad application compatibility, capable of running various Windows applications

Microsoft | Windows Server / SQL Server IoT

High
Adaptability

Advanced
Security Protection

Excellent Performance
and Reliability

Advantech Exclusive

Value-added tool :
Advantech Server IoT Licensing Configurator

- The same as Windows Server/SQL Server, customer can use the familiar development and management tools
- LTSC version, fixed functionality and specifically optimized for embedded and IoT devices
- Costs are more competitive compared to other Microsoft channel products

Microsoft | Office LTSC Embedded

Fixed Functionality,
No Updates Required

Perpetual Software
License

No Internet Connection
Required

Advantech Exclusive

Global distributor,
no GEO blocking limitation

- Regulated devices that cannot accept feature updates
- Specialty systems that cannot connect to the Internet
- Process control devices on the manufacturing floor
- Provide physical COA stickers for stock management and compliance confidence
- Include applications: Word, Excel, PowerPoint, Outlook, Publisher
- Support Windows 10, Windows Server 2019 and later versions

Acronis | Backup & Recovery

Active Protection
Mechanism

Complete Backup and
Recovery

Centralized Remote
Management

Fast Deployment

Advantech Exclusive

Exclusive licensing for the Sales of Acronis True Image OEM

- Back up entire system, including OS, apps and files
- Easy to restore to different hardware for compatibility
- Secure Zone established for backup security
- Automate backups for consistent data protection
- Clone disks for migration or upgrades
- Actively prevent ransomware attacks to secure the data

Trellix | Security

Whitelisting
Solution

Authority
Management

Centralized Management
and Monitoring

Advantech Exclusive

Trellix Whitelisting Manager

- Prevent unauthorized applications and changes
- Defend against zero-day and APTs without signatures
- Ensure easy setup with low operational overhead
- Avoid impacting performance with file scanning
- Monitor file integrity for changes and accountability
- Prevent unauthorized changes to files and registry



Application Stories from Our Global Customers

Windows 10 IoT Enterprise / Office LTSC Embedded



Network Security Industry

**Product**

Windows 10 IoT Enterprise, Office LTSC Embedded

Application

Security Monitoring System

Scenario

The customer uses Office LTSC Embedded to provide a database for storing event logs to analyze threats from the Internet. Additionally, the system has Windows 10 IoT Enterprise installed to enhance system stability.

Windows Server / SQL Server IoT



Medical Equipment

**Product**

Windows Server / SQL Server IoT 2022

Application

Data Server

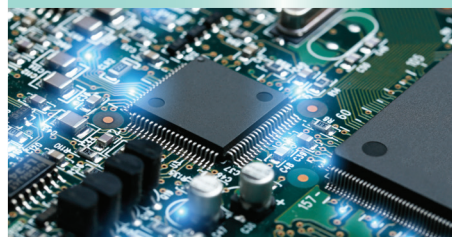
Scenario

The customer's machine is equipped with SQL Server, mainly used for storing patients' medical data, such as X-ray images, medical examination records, and more.

Office LTSC Embedded



Semiconductor Industry

**Product**

Office LTSC 2021 Embedded

Application

Production Equipment

Scenario

The customer is using Office for wafer process and tool system monitoring to perform data logging and data analysis.

Security and Backup



Energy Industry

**Product**

Trellix Application Control with ePO

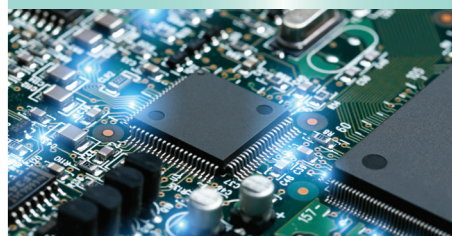
Application

Distributed Control System

Scenario

In the energy industry, the customer's workstations are frequently threatened by viruses, and due to the large number of devices, they need a centralized management platform for unified control. Trellix's products perfectly meet the customer's needs.

Semiconductor Industry

**Product**

Acronis Cyber Protect Backup Advanced Version

Application

Wafer Bonder / Chip Bonder

Scenario

The non-technical operator lacked relevant system operation experience and accidentally deleted data, leading to device failure. Using Acronis True Image Standard Version, a quick backup restoration was performed to minimize the loss.



Software Security Deployment for the Entire Factory and Production Line



Project Requirements

A cross-national machinery group operating in the era of IoT and industry 4.0 was undergoing a digital transformation. During this process, they discovered that upgrading operating platform software required addressing ransomware threats endemic to the industry in recent years. They also opted to address machine safety issues in the factory while integrating production equipment and system platforms.

In the past, the customer in this case was unable to solve security issues via patch files as they were still using outdated systems and unsupported software on their production equipment. However, the network connectivity capabilities of smart manufacturing allows companies to identify threats to the overall environment then handle them accordingly.

Advantech introduced the latest version of Windows 10 IoT to the customer. Windows 10 IoT provides technical support and security updates until 2031. It has a 10-year life cycle, a long stable support period, and provides enhanced security protection.

Likewise, inadequate blacklisting techniques led the company to introduce Trellix Whitelisting a few years prior to updating their platform systems. Whitelisting helps deal with viruses and hacker intrusions by opening a specific portal that allows only licensed applications to run on the equipment. After introducing Trellix, the company no longer needed to update lists as frequently. This reduced the operators' workloads while enhancing system stability and security.

The customer also introduced Acronis Snap Deploy to enhance the overall production efficiency of their equipment and enable production line equipment images to be viewable via a central management console. Should a machine malfunction, Snap Deploy's one-to-many deployment method simply checks one machine before recovering the equipment quickly. This is faster than manual one-on-one checking and helps avoid human error.

Features/Benefits

- Small footprint: Protect embedded system with a relatively small footprint and minimize the impact on performance
- High-speed deployment: Rapidly deploy a single image to multiple machines via unicast or multicast from a centralized management console.
- Perpetual License: One-Time Fee
- Increase operational efficiency: Support remote control & recovery and reduce maintenance costs
- Flexible deployment options: Choose between manual, automatic, user-initiated, and scheduled deployment
- Offline mode: No internet connection required for system operation

Product Selection Guide



	Windows 11/10 IoT Enterprise	Windows on Arm	Windows Server IoT	Office LTSC Embedded
Product	<ul style="list-style-type: none"> • Windows 11 IoT Enterprise • Windows 10 IoT Enterprise LTSC • Windows 10 IoT Enterprise GAC/SAC 	<ul style="list-style-type: none"> • Windows on Arm 	<ul style="list-style-type: none"> • Windows Server IoT 2022 • Windows Server IoT 2019 	<ul style="list-style-type: none"> • Office LTSC 2021 Embedded
Overview	<p>Windows 11/10 IoT is a series within the Windows version lineup, offering a complete enterprise edition of Windows with embedded capabilities. It allows dedicated devices to be locked down to a specific set of applications and peripheral devices, enabling the creation and management of trusted IoT solutions using powerful tools and technologies. The LTSC version provides 10 years of supply and security updates from the date of release, while GAC/SAC versions support 30 months of feature update services.</p>	<p>Windows IoT Enterprise on Arm is simply Windows IoT Enterprise built for ARM64 devices. Windows IoT Enterprise on ARM64 is the same OS as it is on X64-based devices, with IoT features available to help you build secure, powerful devices across any architecture.</p>	<p>Windows Server IoT is a full version of Windows Server that provides enterprise management capabilities and security for IoT solutions. It can be used with the same familiar development and management tools as those used on general-purpose servers, such as Endpoint Configuration Manager and Windows Admin Center.</p>	<p>Office LTSC Embedded is one of the products in the Office series and is a perpetual licensing version specifically designed for IoT/Embedded devices with specific functionalities. It does not require a subscription and does not need to be connected to the cloud.</p>
Benefits	<ul style="list-style-type: none"> • Specifically designed for devices such as ATM machines, point-of-sale terminals, industrial automation systems, thin clients, medical devices, digital signage, kiosks, and other fixed-purpose devices. • Supports both Universal Windows Apps and traditional Windows applications. • Supports various processors, including x86, x64, ARM, and more. • Advanced security features such as Device Guard, BitLocker, and Secure Boot. • Supports USB 4.0 and Wi-Fi 6E (only supported in Windows 11 IoT). • Supports advanced device lockdown capabilities for embedded systems. 	<ul style="list-style-type: none"> • Lower cost Arm64 devices are typically less expensive and represent a larger portion of the market • Lower power great for sustainability and low OPEX; more efficient, less power-hungry processor • Enhanced Graphics Hardware-accelerated graphics capabilities • Application Compatibility Unlocking the PC app ecosystem • Image Customization Tailored features and reduced footprint 	<ul style="list-style-type: none"> • Diverse storage options to achieve high performance, availability, and resource efficiency through processes such as virtualization and optimization. • Multi-layered security to provide comprehensive protection. • Built-in hybrid capabilities in Windows Server, making it easier to extend the data center to Azure for improved efficiency and flexibility. 	<ul style="list-style-type: none"> • IoT/Embedded solutions that do not require feature updates. • IoT/Embedded devices that cannot connect to the Internet. • Manufacturing-related production process control equipment. • Other IoT/Embedded-related applications.
Min. Hardware Requirements	<p>Win 10 IoT</p> <ul style="list-style-type: none"> • Processor: 1 GHz or higher or System-on-Chip (SoC) • Memory: 1 GB (32-bit) or 2 GB (64-bit) • Disk Space: 16 GB (32-bit) or 32 GB (64-bit) • Graphics Card: DirectX 9 with WDDM 1.0 driver • Display: 800 x 600 resolution <p>Win 11 IoT</p> <ul style="list-style-type: none"> • Processor: 64-bit processor or System-on-Chip (SoC) with 1 GHz or higher, and 2 or more cores • Memory: 4 GB • Disk Space: 64 GB or more • Graphics Card: DirectX 12 with WDDM 2.0 driver • Display: High-definition (720p) • Other: TPM 2.0 	<ul style="list-style-type: none"> • Processor: NXP i.MX8, i.MX9, QCS/QCM 6490/5430 • Memory: 4GB • Disk Space: 64GB • Graphics Card: DirectX 12 • Display: High definition (720p) 	<ul style="list-style-type: none"> • Processor: 1.4 GHz 64-bit or higher • Memory: 512 MB • Disk Space: 32 GB • Network Interface Card: Ethernet card with a minimum throughput of 1 GB per second • Display: 1024 x 768 	<ul style="list-style-type: none"> • Processor: Windows 11 or Windows 10/latest macOS with a 1.6 GHz dual-core processor. • Memory: 1 GB (64-bit), 2 GB (32-bit) RAM for PC; 4 GB RAM for Mac. • Disk Space: 4 GB available disk space for PC; 10 GB for Mac.

Product Selection Guide



	Backup & Recovery			Security
Product	<ul style="list-style-type: none"> Acronis True Image OEM version (Personal/HD/Data Protection/OEM for Windows Server) 	<ul style="list-style-type: none"> Acronis Cyber Protect Backup 	<ul style="list-style-type: none"> Acronis Snap Deploy 	<ul style="list-style-type: none"> Trellix Application Control Trellix Embedded Control Trellix Integrity Control
Overview	<p>Acronis OEM Solutions are available exclusively for OEM partners, Acronis True Image OEM editions are limited functionality subsets of Acronis True Image. They are designed for specific functionality and are priced to meet OEM needs and budgets without making the OEM partner pay for unneeded features.</p>	<p>Acronis provides the world's easiest and fastest data protection software for businesses of all sizes. It covers on-premise and remote data, as well as private and public clouds, and mobile devices.</p>	<p>Acronis Snap Deploy lets you create an exact disk image of any standard configuration, including the operating system, configuration, files, and applications. You can simultaneously deploy that image to multiple machines in one easy step.</p>	<p>Trellix whitelisting technology is ideal for protecting systems with low overhead which does not impact system performance and is equally effective in standalone mode without network access.</p>
Benefits	<ul style="list-style-type: none"> The only backup that actively fights ransomware. Full disk image, dedicated function for full disk backup, file/folder backup and scheduling. Lower support costs via easy and remote factory restore for all systems –including OS, applications, and settings. 	<ul style="list-style-type: none"> Stores backups to a variety of storage devices—including local disks, network storage, and the cloud. Minimizes expensive downtime by restoring Windows and Linux systems to dissimilar hardware—including bare-metal physical, virtual, or cloud environments. Reduce time-to-action and resolve issues quickly with customizable dashboards for quick insights into your infrastructure. 	<ul style="list-style-type: none"> Mass provisioning – rapid deployment of a single disk image to multiple machines. Deployment to live machines – start deployment to live Windows machines without manually booting individual machines from the network or CDs. Multicast deployment – thousands of machines can be deployed as quickly and easily as one. 	<ul style="list-style-type: none"> Block unauthorized applications and change attempts. Change attempts from outside of policy are blocked. Monitors file integrity and file changes.
Min. Hardware Requirements	<ul style="list-style-type: none"> Processor : Pentium 1 GHz Memory: 1 GB RAM Disk Space: 3.5 GB CD-RW/DVD-RW drive or USB drive for bootable media creation (about 500 MB of free space is required) Display: 1024 x 768 Mouse or other pointing device (recommended) 	<ul style="list-style-type: none"> Processor: Pentium 1 GHz CD-RW/DVD-RW driver USB flash drive for bootable media creation (about 1GB of free space is required) Display: 1024 x 768 	<ul style="list-style-type: none"> Processor: Pentium 1 GHz CD-RW/DVD-RW driver USB flash drive for bootable media creation (about 1.5GB of free space is required) Display: 1024 x 768 	<ul style="list-style-type: none"> Processor: x86-64 / AMD64 architectures Memory: 1-GB RAM (64 bit 2-GB) Disk Space: 100MB TCP/IP protocol installed on the system

Advantech Software Distribution Solutions



Leading Technologies

Global leader in the fields of IoT intelligent systems and embedded platforms.



Global Service Team

Dedicated regional service team to ensure local services and support with flexibility and efficiency.



Partner Ecosystem

Streamlined design-in services shorten design and integration cycles, ensuring time to market.



Intelligent Service

Seasoned software service team offers experienced technical support to accelerate product deployment.



One-Stop Shop

Reliable one-stop-shop customer-centric and scenario-based solutions and services.

Regional Service & Customization Centers

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86-512-5777-5666

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Netherlands Eindhoven
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