Artificial Intelligence, IIoT & Edge Computing

DRIVE EFFICIENCY AND GAIN THE BENEFITS OF BIG DATA.
About Winmate

Winmate Inc. is a rugged computing and embedded solutions provider for industries operating in some of the most challenging environments. Founded in 1996 in Taipei, Taiwan where its headquarters, research and development facility, and production lines are located, today the company has offices and service centers worldwide.

Winmate develops rugged industrial-grade computing solutions that advance the edge AI system, and Industrial Internet-of-Things (IoT). Industrial display and panel PC, HMI, embedded systems, IoT gateways to rugged tablets and handheld devices for industries ranging from transportation and logistics to marine and military, railway, oil and gas, smart grid, healthcare, and field services. Winmate also provides professional services in customizing products and project management create a unique solution for specific customer’s needs.

The Winmate Difference

Innovation and Ruggedness
Blending innovations and ruggedness, our products are designed to meet the requirements of vertical markets’ environmental standards.

Engineering Intelligence
We are committed to maintaining the highest standards in engineering excellence to ensure our products deliver reliability, durability, and optimized performance.

Quality Commitment
Quality assurance and entire engineering processes are under go in-house. This is why we invested significantly in our state-of-the-art testing facility and offer global support.

Efficiency
Our team is committed to efficiency and maintaining the shortest possible development cycles. From design to testing the whole development process undergoes in-house to achieve the market advantage in speed and quality.

Reliability
Reliability, service and support are part of our foundation. Every product undergoes the scrutiny of industrial standards testing to verify electrical, mechanical, thermal, and firmware design performance.
Customized Solutions

Years of experience allow Winmate to offer customized solutions for different applications.

From product design to accessories, our engineering team designs and support the system integration process.

- CUSTOMIZED CONFIGURATION
- CUSTOM OS IMAGE
- CUSTOM BIOS
- ENCLOSURE DESIGN
- PERIPHERALS AND OPTIONS
- CUSTOM-DESIGNED ACCESSORIES

Technical Know-How

We understand that, for enterprises operating in rugged or potentially hazardous environments, the access to the cutting-edge solutions purpose-built for their applications is imperative. As a result, Winmate locates its resources from project research and design, software development and customization, product verification and validation, to testing all in house in order to gain maximized freedom to research and implement the latest technologies available.

The latest technologies we deploy for our rugged products:

- Dry and wet optical bonding
- Panel enhancement for sunlight readability
- Anti-reflection (AR) and anti-glare (AG) glass protection coating
- Light sensor
- Hyper dimming
- Electronic potting
- Touch screen integration: projected capacitive, resistive or SAW touch
- Waterproof enclosure
- Military EMI and mesh coating
- Wireless capabilities
- Data capture devices integration
- Defroster for ultra-low temperature environments
- Stainless steel SUS 316/ AISI 316
- Shock and vibration resistance
- Wide-range operation temperature
Artificial Intelligence, IIoT & Edge Computing

Overview

Winmate offers a full range of embedded platforms for you to build unique solutions for Industrial embedded systems. Our embedded computing solutions are designed to give developers the freedom to build fast and convenient solutions for industrial applications such as factory automation, machine control, transportation, IoT gateways and edge computing.

Our embedded computing solutions include:

- AI-ready embedded hardware, IoT gateways, embedded box PCs, industrial servers and Single Board Computers (SBC)
- The latest Android™, Windows® and Linux operating system
- Board development and production purpose-built for your needs

Technology

AI-ready solution - Winmate IWAI Series is an AI-ready hardware system developed for deep learning inference computing to gain faster, deeper business insights. Featuring 8th Gen. Intel® Processor and Intel® Movidius Video Processing Unit (VPU), the IWAI Series offers AI-ready solution that meets the high computation and low-latency requirements of deep learning on edge devices. With the Intel® OpenVINO™ toolkit, the Winmate IWAI Series speeds up the deployment of your intelligent edge computing and AI solutions.

Dive into the era of artificial intelligence and machine learning.
Technology

The OpenVINO™ toolkit quickly deploys applications and solutions that emulate human vision. Based on Convolutional Neural Networks (CNN), the toolkit extends computer vision (CV) workloads across Intel® hardware, maximizing performance. The OpenVINO™ toolkit includes the Deep Learning Deployment Toolkit (DLDT).

The OpenVINO™ toolkit:
1. Enables CNN-based deep learning inference on the edge.
2. Speeds time-to-market via an easy-to-use library of computer vision functions and pre-optimized kernels.
3. Includes optimized calls for computer vision standards, including OpenCV*, OpenCL™, and OpenVX*.

Why Winmate?

Industrial Internet of Things and AI applications require the right software, hardware and expertise to make the whole ecosystem work for the needs of enterprises. And Winmate is ready to provide new solutions and services for the industrial AI market.

TOP 5 AI TRENDS
1. AI Powered Chips
2. Merging IoT and AI
3. Automated Machine Learning
4. The Rise of Facial Recognition
5. Increased Automation

Video Analytics-as-a-Service Model (VaaS)
Application Story

Vehicle Classification

Advanced License Plate Recognition: Combinatorial use of morphological transformation and character recognition.


Video Color Search with Video Summary: Employ color indexing techniques for indexing and search, coupled with video summary option.

Face Recognition: Whitelist blacklist recognition with time dependent matching.
Business Intelligence

**People Counting:** Count the number of people that enter or exit specific areas, and the total number of people within specific areas.

**Human Traffic:** Flow track and compare people movement (activity) across different regions.

**Crowd Density:** Measure the crowd level, and track overall activity level at different times within an area.

**Audience Profiling:** Identify age, gender and whether the target is smiling, to help users understand their audience profile.
Predictive Maintenance System

"BRIDGING THE GAP BETWEEN IT AND OT"
Most predictive maintenance systems rely on machine learning to formulate predictions. The advantages are numerous and can significantly reduce costs while eliminating the need for planned downtime in many cases.

"ARTIFICIAL INTELLIGENCE - THE DRIVING FORCE OF INDUSTRY 4.0"

- CE, FCC
- 8th Gen. Intel® Core™ i7/i5/i3
- Intel® Movidius VPU Card
- Windows 10 IoT Enterprise / Linux

Fanless cooling system
Wi-Fi, WWAN
USB 3.0
COM Port
HDMI
4 x PoE (PSE) sharing 60W
Wide range power input 9~36V DC with isolation and ignition
Support 4 in/ 4 out DI/DO isolated

Accessories

Standard
Male Terminal Block(5 pin) for DIO, Driver CD, Open Wire for Power, Wifi Antenna
Male Terminal Block(5 pin) for Power
Fanless Embedded Surveillance Computer
IWAI-SHA

“AI-BASED SECURITY SOLUTIONS.”

- CE, FCC
- 8th Gen. Intel® Core™ i7/i5/i3
- Intel® Movidius VPU Card
- Windows 10 IoT Enterprise / Linux

Fanless cooling system
Wi-Fi
USB 3.0
COM Port
Compatible with Edge AI module: Intel Movidius VPU Card
4 x PoE (PSE) sharing 60W
Wide range power input 9~36V DC with isolation and ignition
Support 4 in/ 4 out DI/DO isolated

Accessories

<table>
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<tr>
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<tr>
<td>Male Terminal Block(5 pin) for DIO</td>
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<td>Male Terminal Block(5 pin) for Power</td>
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</table>

Application

Smart Surveillance

“MORE INTELLIGENT, MORE SECURE”

Surveillance is not simply video keeping track of people’s movements. It’s a lot more than that – it’s about tracking, trends and transitions and using artificial intelligence (AI) to make smart, informed decisions.
**Fanless Embedded In-Vehicle Computer**

**IWAI-TA**

**Custom configuration**

- 4G LTE
- Expansion Slot
- Up to 512 GB Storage

**Application**

**Traffic Management System**

“COMPATIBLE WITH UPCOMING TECHNOLOGIES”

- E-Mark, CE, FCC
- 8th Gen. Intel® Core™ i7/i5/i3
- Intel® Movidius VPU Card
- Windows 10 IoT Enterprise / Linux

- Fanless cooling system
- Wi-Fi, GPS, GLONASS, WWAN
- USB 3.0
- CAN Bus, COM Port
- HDMI
- 4 x PoE (PSE) sharing 60W
- Wide range 9~36V DC power input with isolation and ignition
- Support 4 in/4 out DI/DO isolated

**Accessories**

**Standard**

- Male Terminal Block(5 pin) for DIO
- Driver CD
- Open Wire for Power
- GPS Antenna
- Male Terminal Block(5 pin) for Power

**“SMART TRANSPORTATION REDEFINED”**

Assures safe and fluent traffic conditions for all travelers, manage traffic and incidents in line with legal regulations and contractual obligations, and reduce and eliminate congestions and increase safety on the roads.
Modular Embedded Box PC
IKMH100-AI

"AI TECHNOLOGY FOR MANUFACTURING."

- Intel® Core™ i5-7200U
- Intel® Movidius X VPU Card
- Windows 10 IoT Enterprise/ Linux

Modular design
HDMI output
Four USB 3.0
Two RJ45 for Ethernet
PCle x 4, DI/DO x 8 (4 in/4 out)
Desktop, wall mount
Operating temperature -10°C to 50°C
Support 4 in/ 4 out DI/DO isolated

Application

Production Line Control

“ENABLING AN EFFICIENT, SMOOTH OPERATIONS.”

By preempting a failure with a machine learning algorithm, systems can continue to function without unnecessary interruptions.

Accessories

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<tbody>
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<td>Male Terminal Block(5 pin) for DIO</td>
<td>Driver CD</td>
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Building Automation

“REDUCE BUILDING MAINTENANCE AND OPERATIONS COST.”

Modern building complex installed Winmate’s solution for utility management. Complex system includes automation to control HVAC, lighting, utility consumption and access control systems.

IoT Gateway
EAC Mini EACIL20

“CONNECT EVERYTHING. CONTROL EVERYWHERE.”

- Intel® Celeron® N3350 Apollo Lake
- Windows 10 IoT Enterprise, Ubuntu 16.04
- Expansion with 30+ combinations

Certified Microsoft Azure for IoT
Certified AWS IoT Greengrass

4 GB LPDDR3, 32 GB eMMC, optional mSATA

Expansion module design
Fanless cooling system
Two USB 3.0, two Giga LAN RJ45
HDMI, supports 1920 x 1080 @60 Hz
Desk, wall, VESA, DIN-Rail mount
Operating temperature 0~55°C

Accessories

<table>
<thead>
<tr>
<th>Standard</th>
<th>Optional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terminal Block 2 pin to 2.5Ø Female Adapter Cable</td>
<td>AC Adapter 12V/36W</td>
</tr>
<tr>
<td>Open Wire Cable with terminal block 2 pin connector</td>
<td>VESA Mount Kit</td>
</tr>
<tr>
<td>WLAN External Antenna</td>
<td>DIN Rail Mount Kit</td>
</tr>
<tr>
<td>WWAN External Antenna</td>
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</tbody>
</table>
Accessories

Standard
Terminal Block 2 pin to 2.5Ø Female Adapter Cable
Open Wire Cable with Terminal Block 2 pin connector
WLAN External Antenna

Optional
Single-side Lockable USB Type-C Cable
Dual-side Lockable USB Type-C Cable
DIN Rail Mount Kit
USB Type-C Male Cable

Optional
Single-side Lockable USB Type-C Cable
AC Adapter 12V/36W

“I’M TRANSFER POWER AND DATA SIMULTANEOUSLY.”

- Intel® Celeron® N3350 Apollo Lake
- Windows 10 IoT Enterprise, Ubuntu 16.04
- USB Type-C alternating mode

Certified Microsoft Azure for IoT
Certified AWS IoT Greengrass
4 GB LPDDR3, 32 GB eMMC
Fanless cooling system
USB Type-C, two USB 2.0 Type-A
Alt mode: DP output, USB data, power delivery
Two Giga LAN RJ45
Desk, wall, VESA, DIN-Rail mount
Operating temperature 0~55°C

“OPTIMIZE OPERATIONS OF SURFACE POLISHING STATION.”

IoT Gateway and vibration sensors were installed in a car factory at the surface polishing station. The system measures the real time speed and vibration of the polisher to ensure operator is within safety limits.
Renewable Energy Plant

“REMOTE CONTROL AND DATA ANALYSIS.”

Large European company modernizes the equipment of solar energy power inverters. IoT gateways now collect information from IP cameras and other external devices and directly send to router and internal LAN network.

IoT Gateway

EAC Mini EACIL67

“WITHSTANDS WATER DROPS AND RAIN.”

- Intel® Celeron® N3350 Apollo Lake
- Windows 10 IoT Enterprise, Ubuntu 16.04
- Waterproof enclosure

Certified Microsoft Azure for IoT
Certified AWS IoT Greengrass
Fanless cooling system
4 GB LPDDR3, 32 GB eMMC
USB Type-C, USB 2.0
Alt mode: DP output, USB data, power delivery
Two Giga LAN RJ45
Desk, wall, VESA mount
IP67-rated water and dust proof
Wide operating temperature -20~60°C

Accessories

<table>
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<tr>
<th>Standard</th>
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<tr>
<td>M12 to Open Wire DC Cable</td>
<td>Waterproof RJ45 LAN to Standard RJ45 LAN Cable</td>
</tr>
<tr>
<td>WLAN External Antenna</td>
<td>Waterproof USB Type-A male to Standard USB</td>
</tr>
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<td></td>
<td>Waterproof USB Type-C to Standard USB Type-C Cable</td>
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<td></td>
<td>Waterproof USB Type-C to Lockable USB Type-C Cable</td>
</tr>
<tr>
<td>M12 to Open Wire DC with CANBus Cable</td>
<td>VESA Mount Kit</td>
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Vehicle Automation

“OPEN SOURCE PLATFORM ALLOWS CUSTOMIZATION.”

An OEM customer decided to deploy an Android-based gateway for vehicle automation. Shock and vibration resistance of the EACFA20 allows for in-vehicle application.

IoT Gateway
EAC Mini EACFA20

FOR YOUR ANDROID-BASED APPLICATION.

- Freescale i.MX6 Arm® Cortex® A9
- Android 6.0, Ubuntu 16.04
- Expansion with 15+ combinations

Expansion module design
Fanless cooling system
16 GB eMMC
Two USB 2.0, one USB OTG
Two Giga LAN RJ45
HDMI, supports 1920 x 1080@60 Hz
Desk, wall, VESA, DIN-Rail mount
Operating temperature 0~55°C

Accessories

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Memory | Up to 2 GB

Storage | Up to 64 GB

SMA Antenna

Expansion Module

FOR YOUR ANDROID-BASED APPLICATION.

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EAC Mini EACFA20

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Expansion module design
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16 GB eMMC
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Memory | Up to 2 GB

Storage | Up to 64 GB

SMA Antenna

Expansion Module

FOR YOUR ANDROID-BASED APPLICATION.

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Embedded Computing
EAC Pro Box PC

“POWERFUL CENTRAL CONTROL COMPUTER”

The rich I/O capacity and powerful computing of the EAC Pro allows it to act as the central computer for a factory control center.

ABUNDANT INTERFACES.

- Flexibility, rich I/O capacity and multi-expansion
- Intel® Xeon® E3-1268LV5,
  7th Gen. Intel® Core™ i7/i5/i3
- Windows 10 IoT Enterprise

Fanless cooling system
64 GB mSATA SSD
USB 3.0, USB 2.0
RS232/422/485, two RJ45 for Ethernet, HDMI 1.4
HD 4K resolution
4U height design
Panel mount, VESA mount
Front IP65 water proof and dust proof
Operating temperature 0°C to 50°C

Accessories

<table>
<thead>
<tr>
<th>Standard</th>
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<tbody>
<tr>
<td>Mounting Clips and Screws 2 pin Terminal Block AC Adapter Power Cord Driver CD</td>
</tr>
</tbody>
</table>
Embedded Computing
M Series Box PC

“MODULAR DESIGN.”

- Intel® Core™ i5-7200U (IKMH100)
- Intel Atom® E3845 (IBMH100)
- Windows 10 IoT Enterprise

Fanless cooling system
Modular design
HDMI output
Four USB 3.0
Two RJ45 for Ethernet
PCIe x 4, DI/DO x 8 (4 in/4 out)
Desktop, wall mount
Front IP65 waterproof and dustproof
Operating temperature 0°C to 50°C

Application
Assembly Line Controller

“EFFICIENT AND SMOOTH OPERATION.”
The M Series Box PC IKMH100 combined with the M Series modular display was installed in the assembly line controller of an automotive production line for facility monitoring and control application.

Custom configuration

- Up to 12 GB Memory
- Up to 512 GB Storage
- DI/DO
- Optional 2nd Storage
- Optional Front Display

Accessories

<table>
<thead>
<tr>
<th>Standard</th>
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<tr>
<td>2 pin Terminal Block</td>
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</table>
Embedded Computing
DIN Rail Box PC

“COMPACT. POWERFUL. VERSATILE.”

- DIN Rail mounting for industrial automation
- Intel® Pentium® N4200 (IBDRW100-P)
- Intel® Celeron® N2930 (IBDRW100)
- Windows 10/8/7

Fanless cooling system
64 GB mSATA /M.2 SSD
One USB 3.0, three USB 2.0
RS232/422/485, VGA
Four RJ45 for Ethernet
20 Pin DI/DO
9~36V DC power input with isolation
Operating temperature -20°C to 60°C

Accessories

<table>
<thead>
<tr>
<th>Standard</th>
<th>10 pin Terminal Block female connector for DI/DO</th>
<th>3 Pin Terminal Block to 2.5 female adapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open Wire Power Cable</td>
<td>Power Cord</td>
<td>Driver CD</td>
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</table>

Factory Automation

“STABLE PERFORMANCE IN A COMPACT RUGGED DESIGN.”

This DIN Rail Box PC was integrated as the system controller for a beverage production line.
Embedded Computing
Arm Series

ARM BASED PC SOLUTION.

- Aluminum housing
- Arm Cortex-A9 (FA30SB3-210)
- Android 6.0/ Linux 4.1.15 (QT 5.5)/ Ubuntu 16.04

Fanless cooling system
16 GB eMMC
USB 2.0, USB OTG
RS232/422/485, RJ45 for Ethernet
Micro SD/SDHC card slot
Aluminum profile with fin housing
Desktop, wall mounting
Operating temperature -20°C to 60°C

Application

Ticketing Machine

“LOW POWER CONSUMPTION ARM SOLUTION.”
A public transportation operator needed an Arm-based solution for their automatic ticketing kiosks. The fanless Arm Box PC with RS232 and DI/DO ports was provided as a low power solution.

Custom configuration

- Memory
- PoE
- Micro SD
- DI/DO
- RS232
- CPU

12 GB

Accessories

Standard

2 pin Terminal Block  AC Adapter  Power Cord  Driver CD
Embedded Computing
Fanless Series

“STABLE INDUSTRIAL COMPUTING IN A SEALED BOX”

This fanless Box PC was used as part of an industrial assembly line that needed a solution that was low maintenance and reliable as the assembly line needed constant uptime.

Custom configuration

- Up to 8 GB Memory
- Wi-Fi
- 4G LTE
- DI/DO
- DVI

Application

“WITHSTANDS HARSH ENVIRONMENTS. FANLESS.”

- Intel® Celeron® N2930 (IB70SB7-101)
- Windows 10/8/7

Fanless cooling system
2.5” HDD, Mini PCIe SSD
USB 3.0, five USB 2.0
Two RS232, one RS232/422/485 (Default RS232)
Two RJ45 for Ethernet
DVI, VGA, HDMI
Desktop, wall mount
Operating temperature 0°C to 50°C

Accessories

- Standard
- Wall Mount Kit
- Driver CD
Embedded Computing
Standard Box PC

VERSATILE COMPUTING FOR ANY NEEDS.

- Thermal solution with system fan
- 7th Gen. Intel® Core™ i7/i5/i3 (IK70SB7-111)
- Windows 10 IoT Enterprise

M.2 SSD, Mini PCIe SSD, 2.5” HDD
Intel® chipset
Four USB 3.0, two USB 2.0
RS232, two RJ45 for Ethernet
HDMI 1.4, DP 1.2
Desktop, wall mount
Operating temperature 0°C to 50°C

Accessories

<table>
<thead>
<tr>
<th>Standard</th>
<th>Power Cord</th>
<th>Driver CD</th>
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<tr>
<td>AC Adapter</td>
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</table>

Control Room
Server PC

“FAST SPEED AND STABLE PERFORMANCE.”
The box PC was configured to be a control room embedded computer as a server PC.

Custom configuration

- Memory: Up to 32 GB
- Storage: Up to 1 TB
- Wi-Fi

Application

Embedded Computing
Standard Box PC

VERSATILE COMPUTING FOR ANY NEEDS.

- Thermal solution with system fan
- 7th Gen. Intel® Core™ i7/i5/i3 (IK70SB7-111)
- Windows 10 IoT Enterprise

M.2 SSD, Mini PCIe SSD, 2.5” HDD
Intel® chipset
Four USB 3.0, two USB 2.0
RS232, two RJ45 for Ethernet
HDMI 1.4, DP 1.2
Desktop, wall mount
Operating temperature 0°C to 50°C

Accessories

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Control Room
Server PC

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The box PC was configured to be a control room embedded computer as a server PC.

Custom configuration

- Memory: Up to 32 GB
- Storage: Up to 1 TB
- Wi-Fi

Application
Embedded Computing
Full IP65 Box PC

“WATERPROOF FOR HARSH ENVIRONMENTS.”

- Full IP65 enclosure
- Intel® Core™ i5-7200U (F65EAC-IK32)
- Intel® Core™ i7-3517UE (F65EAC-IV32)
- Windows 10 IoT Enterprise

Intel® chipset
Three USB 2.0
RS232
Two RJ45 for Ethernet
VGA
9~36V DC power input with isolation
Vibration, shock resistance
Desktop, wall mount
Operating temperature 0°C to 50°C

Accessories

<table>
<thead>
<tr>
<th>Standard</th>
<th>Power Cable with Adapter</th>
<th>DC Power Cable</th>
<th>Serial Cable</th>
</tr>
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<tbody>
<tr>
<td>Mounting Clips and Screws</td>
<td>USB Cable</td>
<td>VGA Cable</td>
<td>LAN Cable</td>
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<td>Driver CD</td>
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</table>
Embedded Computing

2U Rack Server

“SERVER ROOM COMPUTING.”

- Intel® Core™ i7-7700T (IK7T-RK2U)
- Fanless, custom cooling system
- Windows 10 IoT Enterprise

Supports Intel® Acrive Management Technology II
Two 2.5” SSD/HDD, m.2 SSD
Four USB 3.0, two USB 2.0, three serial ports, two RJ45
HDMI 1.4, display port
Rack mount
IEC 61850-3, IEC60068-2-64, IEC 60068-2-2, CE, FCC compliant
Electroplated steel housing
Operating temperature -10°C to 60°C

Electrical Substation
Server Room

“FAST SPEED AND STABLE PERFORMANCE.”
The Rack PC was placed in the substation server room for a smart grid network. Allowed for data to be collected and transmitted on smart grid information.

Accessories

Standard
1 x 3 Pin Acrylic Protect Connector  AC Adapter  Power Cord  Driver CD
“SMALL, YET POWERFUL AND EFFICIENT.”

The 3.5” embedded boards are suited for fanless applications where the computing device will be embedded in a range of challenging scenarios.

**Embedded Computing**

**3.5” Form Factor SBC**

- **Custom configuration**
  - Up to 16 GB Memory
  - Up to 256 GB Storage
  - Expansion Slot

**Application**

“SMALL, EFFICIENT, POWERFUL.”

- Fully integrated small-sized single board computer
- Intel® Pentium® N4200 (IP32)
- Intel® Core™ i5-7200U (IK32)
- Intel® Celeron® N2930 (IB32, IB32S)
- Windows 10 IoT Enterprise

3.5” Form Factor (146 mm x 102 mm)

- Fanless cooling system
- SATA III
- Up to three RS232
- USB 3.0, USB 2.0
- Two RJ45 for Ethernet, VGA, HDMI

**Operating temperature** -20°C to 60°C

**Accessories**

- Standard
  - User Manual
  - Driver CD
Embedded Computing
Mini-ITX SBC

“POWERFUL COMPUTING.”

- Fully integrated Mini-ITX single board computer
- Intel® Pentium® N4200 (IP70)
- 7th Gen. Intel® Core™ i7/i5/i3 (IK70)
- Intel® Celeron® N2930 (IB70)
- Windows 10 IoT Enterprise

Mini-ITX Form Factor (170mm x 170mm)
Intel® chipset and integrated HD graphics
SATA III, COM, USB 3.0, USB 2.0
Two RJ45 for Ethernet, video input, RS232/422/485
Digital I/O
Expansion slot capabilities
12V DC power input
Operating temperature -20°C to 60°C

Application

Industrial Automation

“POWERFUL INTEL CORE PROCESSING IN A COMPACT EMBEDDED BOARD.”
The Mini-ITX embedded boards are perfectly suited for powerful industrial automation applications with multiple interface.

Accessories

Standard
User Manual  Driver CD
Industrial Machinery Equipment

“EASY INTEGRATION.”

Winmate Android-based solution was incorporated in to an industrial machinery equipment for operations automation and control. Winmate provided Arm-based SBC with Android 6.0 and multiple interface.

Embedded Computing

Arm Series SBC

“ENDLESS SOFTWARE DEVELOPMENT POSSIBILITIES.”

- Fully integrated small-sized Arm SBC
- Arm Cortex-A9 (FA30)
- Arm Cortex-A72 + Arm Cortex-A53 (RK30)
- Android/Ubuntu/Linux 4.1.15 (QT 5.5)

3.5” Form Factor (146 mm x 91.6 mm)
Onboard 16 GB eMMC/mSATA
USB 3.0, USB OTG
RJ45 for Ethernet
Micro HDMI
RS232/422/485, CANBus
9~24V DC power input
Operating temperature -20°C to 60°C

Accessories

Standard
User Manual
Driver CD
IWAI SERIES

Dive into the era of artificial intelligence and machine learning.
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