

# SMART MANUFACTURING (INDUSTRY 4.0)

IIoT/  
Manufacturing Digitalization/  
Edge Computing

INCREASE PRODUCTION RATE WITH  
INTEGRATED TECHNOLOGIES

Q1 - 2024

# About Winmate

Founded in 1996, Winmate Inc. is a pioneer in rugged computing technology. Winmate has provided business leaders worldwide with reliable, robust solutions for the most challenging industrial conditions for over two decades. From R&D to manufacturing to in-house testing, Winmate Inc. manages the entire product development process with ready-made products available for quick deployment. Today Winmate's innovative approach has helped countless enterprises at every level with equipment automation and seamless Industrial Internet of Things (IIoT) integration.

From the industrial display, panel PC, HMI, embedded systems to rugged mobile devices, Winmate caters to industries ranging from transportation and logistics to marine and military, railway, oil, and gas, and provides customization services to create a unique solution for specific customer requirements.

## The Winmate Difference

### Innovation and Ruggedness

With innovation 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 conducted in-house. It is why we invested significantly in our state-of-the-art testing facility with additional global support.

“  
**INNOVATIVE  
TECHNOLOGY FOR  
OPERATIONAL  
EXCELLENCE.**  
”

### Efficiency

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

### Reliability

Reliability, service, and support are part of our foundation. Every product scrutinizes 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.

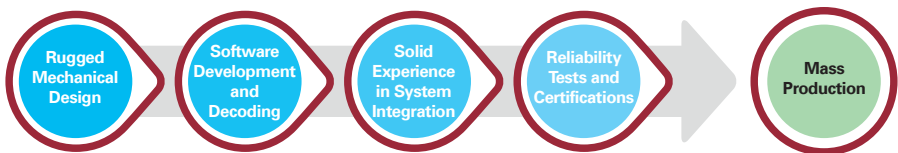
From product design to accessories, our engineering team designs and support the system integration process.

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

# Technical Know-How

We understand that access to cutting-edge solutions purposely built for their applications is imperative for enterprises operating in rugged or potentially hazardous environments. As a result, Winmate locates its resources from project research and design, software development and customization, product verification and validation, and in-house testing 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

# 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 create 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 Windows®, Android™, and Linux operating system
- Board development and production purpose-built for your needs

First-class enterprises already benefit from IoT and plant-floor data using the collected data to predict and prevent equipment failure, improve reliability and reduce downtime. Manufacturers apply data insights to upgrade the quality and lower inspection costs.

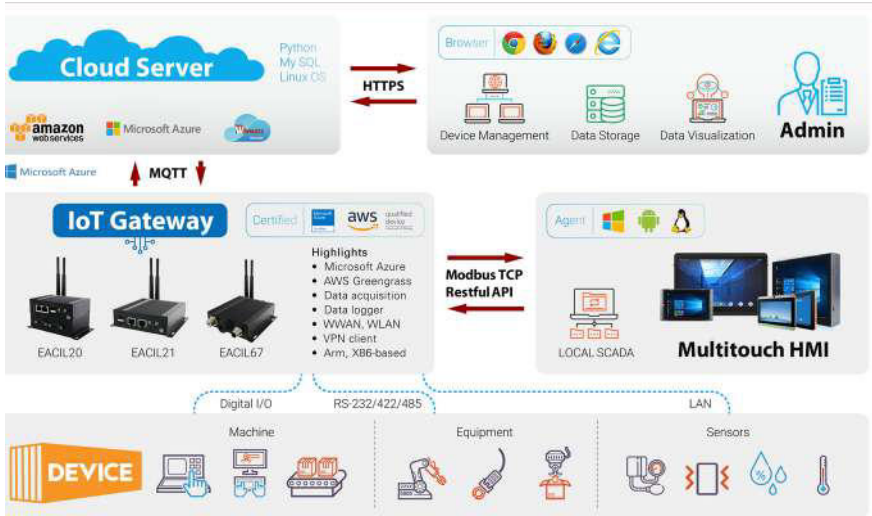


**Make the most out of IIoT data.  
Deploy IIoT solutions to optimize operations.**

# Technology

The Industrial Internet of Things (IIoT) requires the right software, hardware, and expertise to make the whole ecosystem smoothly. And Winmate is ready to provide new solutions and services for the IIoT market.

## Winmate IIoT Solution & Services



## Why Winmate

Our expertise for your application:



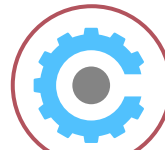
### Hardware designed for the IIoT applications

Interfaces to enable machine-to-machine communications and wireless connectivity to send data to the cloud.



### Experience in software integration

Our software team has Windows, Android, and Linux operating systems and software integration experience.



### Customization for your unique application

We have a strong customization capability and can help you design hardware for specific needs.



# Application Story

## Predictive Maintenance



### Background

The customer in this application was looking for a new high-performance HMI as a production line controller of an intelligent factory. The customer desired a high-performance multi-touch interface that could handle the everyday task of controlling a production line and is also easily maintainable. Winmate offered the M Series HMI with Intel's Core i5 CPU as the solution. The modular design of the M Series allows for easy repairs for either the display or the Box PC module, thus reducing the total cost of ownership.

### Core products

- M Series HMI Panel PC

“**INCREASE PRODUCTIVITY AND EFFICIENCY ON THE FACTORY FLOOR.**”

### Main Challenges

- Integrating the various components and sensors of the production line to the M Series HMI

### Why Winmate

- Modular design for repairs with minimum downtime
- High-performance processor
- Digital I/O to allow industrial sensors to be integrated with the HMI
- P-CAP multi-touch screen and user-friendly interface



Application Diagram: Predictive Maintenance

# Application Story

## Operator Control and Monitoring Systems



### Background

Winmate understands the demands of modern factories and industrial facilities by offering a series of industrial-grade HMI made to deliver stable performance and functionality for increased productivity and efficiency. Winmate's multi-touch HMI goes beyond the standard industrial panel computers with its elegant, edge-to-edge design, rugged build, powerful performance, a full line-up of I/O options, and flexible mounting options.

### Core Products

- E Series HMI Panel PC

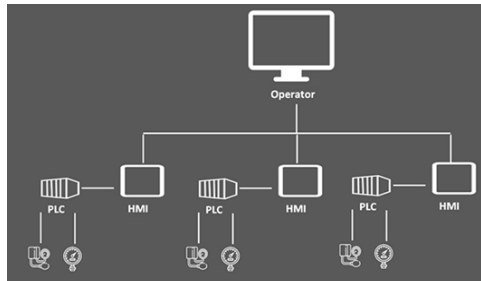
### Main Challenges

- Series of certification and documentation
- Software customization

### Why Winmate

- Extensive know-how for industrial systems with ARM and Linux OS
- Fast product development
- After-sales service and customer support

“ HIGH-PERFORMANCE HMI TOUCH PANELS FOR OPERATOR MONITOR AND CONTROL ”



Application Diagram: Industrial Field Work

# Industrial AI Edge Box PC

## WNAIE-800



FCCE

“ UNLEASH AI EXCELLENCE WITH INDUSTRIAL EDGE PC ”

- Rugged design
- Intel® 12/13th generation LGA socket type processor with Intel® R680E Chipset
- Windows 10 IoT Enterprise (Optional), Linux Ubuntu 22.04 (Optional)

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Supports Intel vPro® / AMT 16.0

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Leverages an slot for NVIDIA® GPU card

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Memory up to 2x 32GB non-ECC DDR5 SODIMM modules

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Support Desk Mount

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Front accessible I/O ports

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Offer stunning visual experience for image projecting and also optimal for AI machine/ deep learning

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### Custom Configuration



WLAN



WWAN



Expansion Module

### Application



## Unlocking Industrial Innovation

### HARNESSING THE POWER OF AI

In the world of industrial tech, our AI Edge Box PC is an innovation beacon. It features the powerful Intel Alder Lake-S processor. What sets it apart is its unmatched capability with NVIDIA RTX A4000/A6000 GPUs for stunning visuals and AI excellence. Embrace industrial computing's future, where tech meets performance



# IoT Gateway EAC Mini Series EACIEK20



“ **EVERYWHERE ACCESS,  
TOTAL CONTROL** ”

- Compact design
- Intel® Celeron® Elkhart Lake N6211 Processor
- Windows 10 IoT Enterprise (Optional), Linux Ubuntu 22.04 (Optional)

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Fanless cooling system Industrial IoT Gateway

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Compact size 100 x 70 x 31 mm (w/o mounting bracket)

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Various mounting options: desk, wall, VESA, DINRail

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AWS IoT Greengrass Certified

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Expansion module design

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9~36 V DC, chassis grounding

---

Two RJ45 for Ethernet

---

## Custom Configuration



WLAN



WWAN



Expansion  
Module

## Application



## Optimize Operations and Minimize Downtown

Embedded computers is essential for operational optimization. These devices seamlessly integrate data from OT with IT, enabling real-time data processing and predictive maintenance. This synergy ensures efficiency, reduced downtime, and competitiveness in the ever-evolving industrial landscape

## Custom Configuration



WLAN



WWAN



Expansion  
Module

## Application



## 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.

# IoT Gateway EAC Mini Series EACIL20/ EACIL21/ EACIL67



“ **CONNECT EVERYTHING,  
CONTROL EVERYWHERE.** ”

- Compact design
- Intel® Celeron® N3350 (2M Cache, up to 2.4 GHz)
- Intel® Pentium® N4200 (2M Cache, up to 2.5 GHz) (Optional)
- Windows 10 IoT Enterprise (Optional),  
Linux Ubuntu 20.04 (Optional)

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Fanless cooling system Industrial IoT Gateway

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4 GB LPDDR4 2400MHz

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Expansion module for additional interfaces

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Two RJ45 for Ethernet

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USB 2.0, USB 3.0 (EACIL20/ EACIL21); USB Type-C (EACIL21)

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9~36 V DC, chassis grounding

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Desk, wall, VESA, DIN-Rail

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IP30/ IP67 (EACIL67) waterproof and dustproof

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Certified Microsoft Azure for IoT, AWS IoT Greengrass

# IoT Gateway EAC Mini Series EACIM20



“ **FOR ANDROID-BASED  
IIOT APPLICATIONS.** ”

- Compact design
- A53 Quad-core 2.0 GHz
- Android 11, Linux Yocto 5.10.104 with QT5.15 (Optional), Linux Ubuntu (Optional)

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Fanless cooling system Industrial IoT Gateway

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4GB LPDDR4, 32GB eMMC

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Compact size 100 x 70 x 31 mm (w/o mounting bracket)

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Various mounting options: desk, wall, VESA, DINRail

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Microsoft Azure Certified for IoT

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Support Android or Linux operating system

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9~36 V DC, chassis grounding

---

Two RJ45 for Ethernet

---

Expansion module for additional interfaces

---

## Custom Configuration



HDMI



Expansion  
Module



WWAN



WLAN

## Application



### Industrial Utility Control

#### IMPROVE EFFICIENCY AND REDUCE OPERATIONAL COSTS

Efficient utility control can improve efficiency and reduce operational costs of the entire plant or factory. Complex system with the IoT gateway EACIM20 includes automation to control HVAC, lighting, utility consumption and access control systems.

# DIN Rail Box PC IBDRW100-EL



## Custom Configuration



Memory



Storage



WLAN



DIN-Rail  
Mounting

## Application



## 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.

FCCE

“

**COMPACT.  
POWERFUL. VERSATILE.**

”

- DIN Rail mount
- Intel® Celeron® N6211
- Windows IoT Enterprise, Linux Ubuntu (Optional)

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DIN Rail design for industrial automation application

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1 x SO-DIMM DDR4 memory, up to 16GB

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1 x RS232/ 422/ 485 communication, select thru BIOS

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4 x Giga LAN, 3 x USB 3.2 Gen2x1, 1 x USB 2.0,  
1 x VGA

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1 x Line out, 1 x line in, 1x Mic in, 1 x Power Jack

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Fanless, streamlined enclosure for highly efficient  
heat dissipation

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AWS IoT greengrass certified

---

# 7"~15" Featured Display USB Type-C



FCCE

“  
**SINGLE CABLE SOLUTION.**  
”

- 7"~15", P-CAP touchscreen
- USB Type-C port
- Chassis or open-frame housing

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USB Type-C for power, touch, video input

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Support VESA mount

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## Custom Configuration

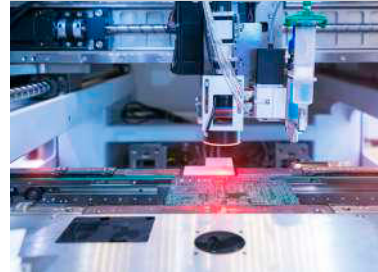


Audio and  
Speaker



Protection  
Glass

## Application



## **Industrial Machinery**

### **SAVE CABLE SPACE BY USING A SINGLE CABLE**

The USB Type-C display connected to the EAC Mini IoT gateway is used as a machine vision solution for industrial machinery applications, delivering higher power and performance than traditional USB 2.0 and USB 3.0 protocols.

# 10.1"~15.6" Featured Display PoE Series

## Custom Configuration



Protection  
Glass



Speaker



## Application



### Factory Building Digital Signage

#### POWER AND DATA IN A SINGLE CABLE

The PoE Touch Monitor was installed as digital signage in a factory building. The PoE function can be installed high up on a wall without the need for additional wiring costs.



**“ FAST INSTALLATION  
WITHOUT ADDITIONAL  
ELECTRICAL WIRING. ”**

- 10.1"~15.6"; P-CAP touchscreen
- Power over Ethernet (PoE)
- Chassis housing

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Power Device (PD) follows IEEE 802.3at (25 W),  
IEEE 802.3af (15 W)

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VGA, HDMI video input

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Panel mount, support VESA mount

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Stylish and elegant design

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OSD control five keys

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# 10.1"~21.5" Stainless Panel PC IP65 B Series with Push Buttons



FC CE

“**SPEED UP RESPONSE TIME IN  
EMERGENCY SITUATIONS.**”

- 10.1"~21.5"; P-CAP touchscreen
- Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz) or N6211

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Fanless cooling system

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Full IP65 waterproof enclosure, good corrosion resistance

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A true flat, easy-to-clean front surface with an edge-to-edge design

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Supports VESA mount

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Rotary switch adjust different touch mode for hand/ rain/ glove application

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Emergency and flat buttons for automation device control

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Stainless steel housing

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## Custom Configuration

Up to  
**8 GB**

Memory

Up to  
**512 GB**

Storage

**9~36V  
DC**

Wide Power  
Input

## Application



## **Factory Automation**

**VANDAL RESISTANT,  
STYLISH HMI  
CONTROLS IN HARSH  
ENVIRONMENTS**

Winmate's all-new 17" panel PC with push buttons was installed inside machine-control terminals in the factory operating in the food and beverage industry. Push buttons on the HMI terminal provide excellent tactical feedback necessary for emergencies.

## Custom Configuration

Up to  
**32 GB**

Memory

Up to  
**4 TB**

Storage

9~36V  
**DC**

Wide Power  
Input

## Application



## Pharmaceutical Packaging Automation

**CORROSION-RESISTANT,  
HYGIENIC, HIGH-  
PERFORMANCE**

HMI control terminals for packaging machines to improve processes, capping, labeling, and collation systems and monitor the operation on a supervisory level, checking for low hopper levels, fallen bottles, and low-level supplies.

# 15"~23.8" Stainless Panel PC IP69K P Series with Conduit Pipe



“ **PERFECT TERMINAL FOR  
STRICT HYGIENE DEMANDS.** ”

- 15"~23.8", P-CAP touchscreen
- Intel® Core™ i5-1135G7
- Windows 10 IoT Enterprise (Optional),  
Linux Ubuntu 18.04 (Optional)

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Fanless cooling system

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Stainless steel for food and chemical industries

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Full IP69K waterproof enclosure, good corrosion resistance

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A true flat, easy-to-clean front surface with an edge-to-edge design

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Waterproof sealed conduit pipe for cable protection

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Supports VESA mount, and optional Yoke mount stand

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# 6.5"~23.8" Windows HMI Panel PC Open Frame Panel PC



## “OPEN FRAME. BEST FOR KIOSK APPLICATIONS.”

- 6.5"~23.8",TFT SVGA LCD
- Integrated HDMI, DP, 24 bit Dual-channel LVDS, DVI

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Projected capacitive multi-touch screen

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Multi display supports DP / HDMI / LVDS / eDP panel interface

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Multiple I/Os, 2 x Serial Ports, 4 x USB 3.2 Gen. 1 Ports

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Front IP65 water and dust proof

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12V Single Voltage Power Input

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### Custom Configuration

Up to  
**8 GB**

Memory

Up to  
**4 TB**

Storage



WLAN

WLAN

### Application



### **Self-Service Kiosk**

**SUITABLE FOR  
EMBEDDED SOLUTIONS**

Installed a self-service payment kiosk Winmate's 15" open frame HMI and data reader components brings automation to gas stations.

# 10.4"~27" Windows HMI Panel PC PP Series

## Custom Configuration



SATA III



WLAN



**“ HIGH COMPUTING  
PERFORMANCE. PANEL MOUNT. ”**

- 10.4"~27", P-CAP touchscreen
- Intel® Core™ i5-1135G7 2.4 GHz (up to 4.2 GHz)
- Windows 10 IoT Enterprise (Optional), Linux Ubuntu 22.04 (Optional)

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4 GB SO-DIMM, DDR4 2400 MHz, 64 GB M.2 M-key SSD

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Brightness adjustment knob

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Panel mount, support VESA mount

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Front IP65 waterproof and dustproof

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Multiple I/Os, 2 x Serial Ports, 2 x USB 3.2 Gen2x1 Ports

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Two USB 3.2 Gen 2x1 (Type-A)

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## Application



### Operator Control & Monitoring

VIVID GRAPHICS  
AND USER-FRIENDLY  
CONTROLS

Accurate machine control and monitoring with vivid images depicted on a 21.5" screen with crystal clear resolution for more complex graphics inside smart factory.

# 10.1"~15" G-WIN Windows Panel PC G-WIN GS Series



“ **TOUGH. RUGGED.  
HEAVY DUTY.** ”

- 10.1"~15"; P-CAP touchscreen
- Low power consumption
- Fanless cooling system and ultra low power

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1 x SO-DIMM, DDR3L 1600 MHz, 4GB 8GB (Optional)

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VESA mount/ Panel mount

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A true flat, easy-to-clean front surface with edge-to-edge design

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Plenty of I/O, including 1 x LAN, 1 x COM, 1 x USB 2.0

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Complete input range power supply

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Full IP65 protection against water and dust with M12 connectors

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## Custom Configuration



Memory



Storage



mPCIe



WLAN



Protection Glass

## Application



### Automated Machine Control Panel

#### ULTIMATE IMAGING. COMPACT FORM FACTOR

Winmate 15" GS Series Panel PC was installed as a part of an automated machine control panel in a smart factory application. Monitor and control factory operations in real-time for increased productivity.

# 7"~15" G-WIN Android Panel PC G-WIN GS Series

## Custom Configuration

Up to  
2 GB

Up to  
32 GB

Memory (NXP) Storage (NXP)



Protection Glass



FCCE

“ SATISFY YOUR  
HEAVY-DUTY NEEDS. ”

- 7"~15", P-CAP touchscreen
- Fanless cooling system and ultra-low power

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Onboard 1GB LPDDR3, 16GB eMMC (FA series)

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Onboard 4GB LPDDR4, 32GB eMMC (IM series)

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Support Android or Linux operating system

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1 x LAN, 1 x RS232, 1 x USB, 1 x USB OTG,  
1 x Micro SD

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Storage temperature -30°C to 60°C

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## Application



### Robot Hand Machine Industry

INTERACTIVE AND  
SMARTTERMINAL  
FOR INDUSTRIAL  
AUTOMATION

Tailored for those who are in demand of compact and excellent visualization systems operated in rugged environments that experience strong vibration from industrial machine operations.

# 15" Windows HMI Panel PC R15IB3S-EHC3



“ ELEGANT DESIGN. ”

- 15", 1024 x 768 with P-CAP Multi-touch screen
- Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
- Front IP65 Water and Dust Proof

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Dual Gigabit Ethernet

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Fanless cooling system and ultra-low power consumption

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Metal front bezel with plastic back cover

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1 x RS232/422/485 (Default RS232)

---

## Custom Configuration



Memory



Storage



HDMI



WLAN

## Application



### Factory Control System

#### FAST SPEED AND STABLE PERFORMANCE

The multi-touch panel PC offered advanced performance, an intuitive user interface. Being connected to the PLC through an Ethernet cable the operator panel ensures faster and more reliable operations.

# 7"~15.6" Android HMI Panel PC E Series

## Custom Configuration



WLAN



Micro HDMI



“ **EASY TO INSTALL.  
ERGONOMIC. COMPACT.** ”

## Application



## Energy Efficiency Systems

**EASE OF USE,  
DURABILITY AND  
ACCURATE CONTROLS**

Lower operational costs with HMI operator panels installed inside intelligent building to control energy consumption.

- 7" ~15.6" P-CAP touch screen
- NXP iMx6 Dual Core, 1.0 GHz (FA series),
- A53 Quad Core 2.0 GHz (IM series)
- Qualcomm Snapdragon™ 660 (IQ series)
- Support Android or Linux operating system

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Onboard 1GB LPDDR3, 16GB eMMC (FA series)

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Onboard 3GB LPDDR4, 32GB eMMC (IQ series)

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Onboard 4GB LPDDR4, 32GB eMMC (IM series)

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Fanless cooling system and ultra-low power consumption

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Panel mount, VESA mount

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Front IP65 waterproof and dustproof

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# 7"~15" Windows HMI Panel PC S Series



“ **SMART SOLUTION FOR  
OPERATOR CONTROL.** ”

- 7"~15" P-CAP touchscreen
- Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
- Intel® Pentium® N4200 (2M Cache, up to 2.5 GHz)
- Windows 10 IoT Enterprise (Optional)

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4 GB SO-DIMM, DDR3L 1600 MHz, 128 GB mSATA SSD/ 128 GB M.2 SATA SSD

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Fanless cooling system

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RS-232/422/485 (Default RS-232)

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RJ 45-10/100/1000 Mbps (LAN), RJ 45 (PoE)

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Panel mount, VESA mount, front side wall mount

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Front IP65 waterproof and dustproof

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## Custom Configuration



Memory



Storage



2 MP Webcam



LED  
Light Bar



WLAN



HR RFID  
Reader

## Application



### **Meeting Room Booking System**

#### **OPTIMIZE MEETING ROOM UTILIZATION**

Installed at the entrance of the meeting room, 10.1" S Series HMI with HF RFID reader helps to control the access to the meeting room, book schedule and check status from afar.

# 7"~15" Android HMI Panel PC S Series

## Custom Configuration



2 MP  
Webcam



LED  
Light Bar



WLAN



HR RFID  
Reader



Micro HDMI



“ **KNOW-HOW IN POE AND TOUCH TECHNOLOGY.** ”

## Application



### Machine Controller

#### EASY TO MAINTAIN AND COST EFFECTIVE

Installed in a packaging zone of a food processing manufacturer S Series HMI operator control panel brings automation to packaging line.

- 7"~15", P-CAP touchscreen
- NXP i.MX6 Dual Core, 1.0GHz (FA series)
- A53 Quad Core 2.0 GHz (IM series)
- Qualcomm® Snapdragon™ 660 (Octa-Core 2.2 GHz) (IQ series)
- Support Android or Linux operating system

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Onboard 1GB LPDDR3, 16GB eMMC (FA series)

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Onboard 3GB LPDDR4, 32GB eMMC (IQ series)

---

Onboard 4GB LPDDR4, 32GB eMMC (IM series)

---

Fanless cooling system and ultra-low power consumption

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Front IP65 waterproof and dustproof

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Support PoE function

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Optional RGB LED Light Bar Indicator

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Optional 2MP Front Camera and HF RFID Reader



# 12.1"~23.8" Windows HMI Panel PC M Series



“ **MODULAR DESIGN.  
INCREASED FLEXIBILITY.** ”

- Intel® 11th Generation Tiger Lake UP3 Core™ i5 CPU
- Signature true flat display screen with edge-to-edge design
- Aluminum, anti-corrosion treated housing
- Superior sealing with front IP65 protection against dust and water

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Projected Capacitive Multi-Touch Screen (P-CAP)

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Fanless design

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Support wide range 9-29 V DC input

---

Quick & easy removable 2.5" SSD bay slot

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Support PCIe x 4 card

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Class 1 Division 2, Group A-D, certified for hazardous area application

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Signature true flat display screen with edge-to-edge design

---

Superior sealing with front IP65 protection against dust and water

---

## Custom Configuration



Memory



Storage



WLAN



DP



HDMI

## Application



## **Outdoor Checkpoint**

### **BRIGHT SUNLIGHT READABLE DISPLAY**

Total solution for access control with customized enclosure for track drivers to enter the territory without times losses even in extreme weather conditions and temperature changes.

## Custom Configuration



Memory



Storage



Barcode Reader



WWAN



RFID Reader



Expansion Port



High Capacity Battery 16hr

## Application



## Durable Waterproof Tablet PC

### DESIGNED WITH A DUST-TIGHT

Winmate waterproof tablet is designed with splashproof IP65 rating. It can also withstand shock, drop, vibration, and a wide range of operating temperatures, allowing the tablet to be used in harsh environments for industrial and military use.

# 10.1" Windows Rugged Tablet PC M101EK



**“ RUGGED ENOUGH TO WITHSTAND WEAR & TEAR. ”**

- 10.1" 1920 x 1200 IPS LED Panel with direct optical bonding
- Intel Celeron N6211

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IP65 water and dust proof with MIL-STD-810H rugged housing

---

Low power consumption with fanless design

---

Removable battery with hot-swap function for all day productivity

---

Sunlight readable with anti-glare solution

---

Integrated 4G/5G Wireless WWAN (Optional)

---

Type-C support Power Delivery 20V In

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# 10.1" Windows Rugged Tablet M101TG



“ **ROBUST TABLET TO  
WITHSTAND INDUSTRIAL USE.** ”

- 10.1", 1920 x 1200, P-CAP touchscreen
- Intel® Core™ i5-1135G7
- Windows 10 IoT Enterprise

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10.1" 1920 x 1200 IPS LED Panel with direct optical bonding

---

Intel® Core™ i5-1135G7 Tiger Lake processor

---

IP65 waterproof and dustproof

---

MIL-STD-810H shock, vibration and drop resistance

---

Sunlight readable with anti-glare solution

---

Hot-swappable battery design

---

USB Type-C port support power delivery 20V In

---

## Custom Configuration



Memory



Storage



Barcode Reader



WWAN



HF RFID Reader



High Capacity Battery

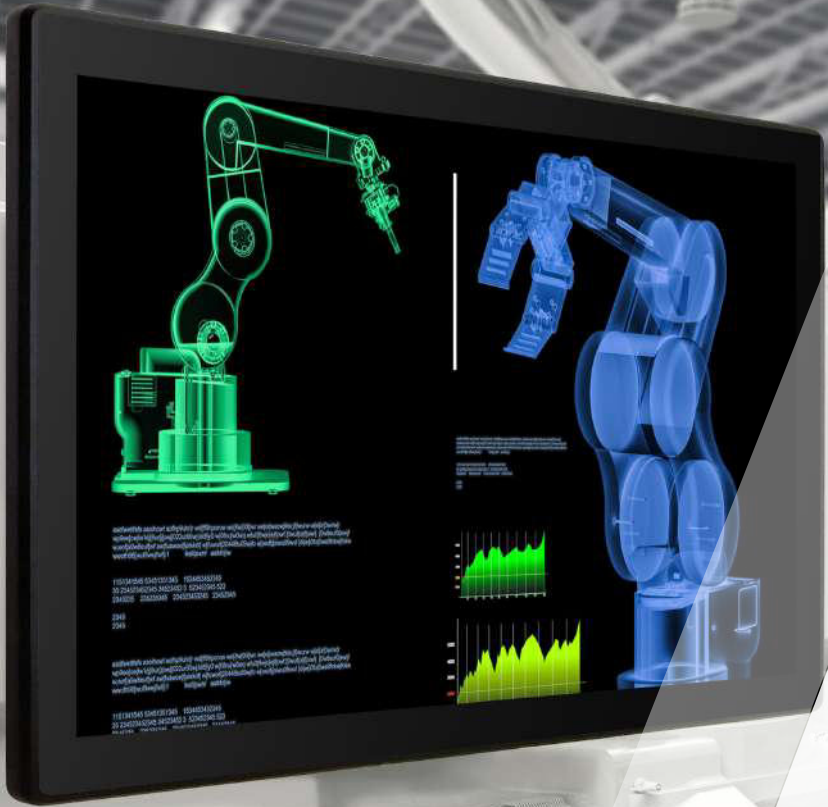
## Application



## Boosting Productivity

### INSTANTLY ACCESS ORDER INFORMATION

The M101TG rugged tablet with an LTE module and barcode scanner to boosts productivity. The solution includes a vehicle cradle for in-vehicle mounting and charging.



WWW.WINMATE.COM



**HMI PANEL PC SERIES**



**G-WIN SERIES**

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**QUALITY  
EXCELLENCE IN  
THE AUTOMOTIVE  
INDUSTRY**



LINE A



OPERATION



START STOP



LINE B



OPERATION



START STOP



LINE C



OPERATION



START STOP



Summary data text



100%





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**WINMATE  
HYGIENIC PANEL  
PCS DESIGNED  
TO MEET FOOD  
& BEVERAGE  
MANUFACTURING  
CHALLENGES**