Factory Automation

VISUALIZE AND CONTROL OPERATIONS.
About Winmate

Headquartered in Taipei, Taiwan, Winmate Inc. has been dedicated to researching, developing and manufacturing the latest in industrial displays and rugged devices for 20 years.

Today, Winmate creates intelligent systems that advance the Internet of Things (IoT) and enterprise-level communications across the globe for industrial and high-tech clients. High standards for technology and quality control have established Winmate as a leader for the last 20 years and set the standard for continued excellence.

Value-added partner

Strong Rugged Design Team
To Meet Environmental Challenges (EE, ME)

Talented Software Team
To Enable IoT & Industrial Application

System Integration Experience
For Rugged & Industrial Mobile Devices

Customized solutions

Years of experience allow Winmate to offer customized solutions for different applications. From product design to creating accessories, our engineering team designs and supports your needs throughout the whole system integration process.

CUSTOMIZED INTERFACES
CUSTOM OS IMAGE
CUSTOM BIOS
ENCLOSURE DESIGN
PERIPHERALS AND OPTIONS
CUSTOM-DESIGNED ACCESSORIES
Factory Automation Solutions

Overview

As technology evolves and regulatory demands significantly increase, modern factories not only need a way to track processes but also a visualization of each important production step. Numerous data figures collected throughout each shift require a screen to display production status and a dashboard for better control and process optimization. Optimized processes facilitate reduced total cost of ownership, minimize time-to-market and enhance production quality.

Winmate provides a wide range of panel PCs and human-machine interfaces for factory or building automation, machine control, point-of-information kiosks, hospitality, or air traffic control.

Our industrial panel PC include:
• The latest Android™, Windows® or Linux operating system
• Various housing options: panel mount, open frame, chassis
• Durable design

Simply select the optimum display size, choose the processing power and find the right interface to design the most suitable solution for your application.

Technology

Standard Industrial Panel PC
Compare to HMI’s design that comes with a flat edge-to-edge surface, a standard industrial panel PC comes with a bezel.

Human Machine Interfaces (HMI)
Winmate’s line of multitouch panel PCs go beyond that of the standard industrial panel computers with elegant and edge-to-edge designs, rugged construction, powerful performance, and flexible mounting options.

Standard vs Flat Design

<table>
<thead>
<tr>
<th>Standard Industrial Panel PC</th>
<th>Flat HMI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bezel</td>
<td>Edge-to-edge</td>
</tr>
<tr>
<td>Single Touch</td>
<td>Multitouch</td>
</tr>
<tr>
<td>Chassis, Front IP65, Panel Mount, Open Frame</td>
<td>Chassis, Panel Mount, Open Frame</td>
</tr>
</tbody>
</table>
**Stainless Solutions**

Whether it be the actual processing of the food or the packaging of the food, automation is everywhere in today’s modern food plants. Plant floor automation helps keep costs down and food quality up.

The stainless series was developed for food processing, packaging and pharmaceutical industries where there is a need for water resistant devices that can withstand daily washdowns to keep a clean food production facility.

**Signature True Flat Design**

Easy to clean and prevent liquid droplets penetrating any openings in the device.

**Flat P-Cap Design**

- Silicone strip / 3C’s waterproof glue
- Waterproof glue and water immersion
- Panel
- Touch

**Resistive Design**

- Silicone strip
- To prevent dust buildup and water immersion
- Waterproof glue
- Panel

**Optical Bonding**

Optical bonding is a process that uses optically clear resin to affix a protective glass overlay or touch screen to the front of an LCD. Filling the air gap between the overlay and the LCD reduces speculation between the surfaces, thereby increasing contrast, color quality and viewing angles.
10.4~23.8” Multitouch HMI
M Series

“MODULAR DESIGN. INCREASED FLEXIBILITY.”

- 10.4~23.8-inch screen with P-Cap touch
- Intel® Celeron® N2930 Bay Trail-M
- Intel Atom® E3845 Bay Trail
- Intel® Core™ i5-7200U Kaby Lake
- Windows 7/8/10

Fanless cooling system
One PCIe x4 expansion slot
Two 2.5” SSD bay slots
Touchscreen supports glove mode
Four USB 3.0
HDMI, RS-232, RS-232/422/485, RJ45
Wide range power input 12-24V DC
Wall mount, VESA mount
Front IP65, 0°C to 50°C operating temperature

Accessories

<table>
<thead>
<tr>
<th>Standard</th>
<th>Mounting Clips</th>
<th>Mounting Screws</th>
<th>AC Adapter</th>
<th>Power Cord</th>
<th>Driver CD</th>
</tr>
</thead>
</table>

Custom configuration

<table>
<thead>
<tr>
<th></th>
<th>Memory</th>
<th>Storage</th>
<th>2nd Storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to</td>
<td>16 GB</td>
<td>512 GB</td>
<td>256 GB</td>
</tr>
</tbody>
</table>

Application

“BRIGHT SUNLIGHT READABLE DISPLAY”
Total solution for access control with customized enclosure for truck drivers to enter the manufacturing facilities without waiting even in harsh weather conditions and temperature changes.

Plant Outdoor Checkpoint
7~15” Android Multitouch HMI
S Series

“HIGH-END ANDROID PROCESSING POWER.”

- 7~15-inch screen with P-Cap touch
- Arm® Cortex®-A72 +Quad-core-A53
- Android 7.1

Fanless cooling system
16 GB eMMC, micro SD card
Power over Ethernet (PoE)
USB 3.0, USB 2.0, USB OTG
RS-232/422/485, RJ45 (PoE)
1W Speaker
Panel mount, VESA mount
Front IP65 water and dust proof
0°C to 50°C operating temperature

Meeting Room Booking System
“OPTIMIZE MEETING ROOM UTILIZATION.”

Installed at the entrance of a meeting room, the 10.1-inch S-Series HMI helps to control access to the factory facilities, shows booking schedule and booking status from afar.

Accessories

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

<table>
<thead>
<tr>
<th>Optional</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>VESA Wall Mount Bracket</td>
<td>Front Side Wall Mount Plate</td>
<td>VESA Desk Stand</td>
</tr>
</tbody>
</table>
“KNOW-HOW IN POE AND TOUCH TECHNOLOGY.”

- 5~15-inch screen with P-Cap touch
- Freescale™ Arm® Cortex®-A9 i.MX6
- Android 6.0, Ubuntu 16.04

Fanless cooling system
16 GB eMMC, micro SD card
Power over Ethernet (PoE)
USB 2.0 host, USB OTG
RS-232/422/485, RJ45 (PoE), CANBus
1W Speaker
Panel mount, VESA mount
Front IP65 water and dust proof
Front IP65, 0°C to 50°C operating temperature

**Accessories**

<table>
<thead>
<tr>
<th>Standard</th>
<th>VESA Plate</th>
<th>VESA Screws</th>
<th>AC Adapter</th>
<th>Power Cord</th>
<th>Driver CD</th>
</tr>
</thead>
<tbody>
<tr>
<td>VESA Desk Stand</td>
<td>VESA Wall Mount Bracket</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Application**

“RESTRICT AND CONTROL ACCESS TO FACTORY FACILITIES.”

Installed at the entrance of a meeting room, the 7-inch S-Series HMI with HF RFID reader helps to control access to the factory facilities, and also shows testing laboratories temperature, humidity and history of use.
Machine Controller

“EASY TO MAINTAIN AND COST EFFECTIVE.”

Installed in the packaging zone of a food processing manufacturer, the S-Series operator HMI allows for automation and visualization for the packaging line.

7~15” Windows Multitouch HMI S Series

SMART SOLUTION FOR AUTOMATED PACKAGING.

- 7~15-inch screen with P-Cap touch
- Intel® Celeron® N2930 Bay Trail-M
- Windows 7/8/10

Fanless cooling system
64 GB M.2 SSD
Power over Ethernet (PoE)
USB 3.0, USB 2.0
RS-232/422/485, RJ45, RJ45 (PoE)
1W Speaker
Panel mount, VESA mount
Front IP65 water and dust proof
0°C to 50°C operating temperature

Accessories

<table>
<thead>
<tr>
<th>Standard</th>
<th>VESA Screws</th>
<th>AC Adapter Power</th>
<th>Driver CD</th>
</tr>
</thead>
<tbody>
<tr>
<td>VESA Plate Cord</td>
<td>VESA Wall Mount Bracket</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VESA Desk Stand</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
“NOW IT IS EASIER TO CONTROL THE BUILDING.”

The 10.1-inch E-Series HMI was installed for adjusting thermostat for efficient automated heating system of the factory building.

**7~15.6” Android Multitouch HMI**

**E Series**

**CUSTOM CONFIGURATION**

**DUAL CPU. DOUBLE THE PERFORMANCE.**

- 7~15.6-inch screen with P-Cap touch
- Arm® Cortex®-A72+Quad-core-A53
- Android 7.1

**HVAC Control System**

**Application**

Fanless cooling system
2 GB LPDDR3, 16 GB eMMC, micro SD card
USB 3.0, USB 2.0, USB OTG
RS-232/422/485, RJ45 (PoE), micro HDMI
PoE IEEE 802.3at (25 W), IEEE 802.3af (15 W)
Panel mount, VESA mount
Front IP65 water and dust proof

-10°C to 50°C operating temperature

**Accessories**

<table>
<thead>
<tr>
<th>Standard</th>
<th>3 pin Terminal Block</th>
<th>AC Adapter</th>
<th>Power Cord</th>
<th>Driver CD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting Clips and Screws</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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” Android Multitouch HMI E Series**

"EASY TO INSTALL. ERGONOMIC. COMPACT."

- 7~15.6-inch screen with P-Cap touch
- Freescale™ Arm® Cortex®-A9 i.MX6
- Android 6.0, Ubuntu 16.04, Linux Kernel 4.1.15, QT 5.5

Fanless cooling system
1 GB LPDDR3, 16 GB eMMC, micro SD card
USB 2.0 host, USB OTG, micro USB for debug
RS-232/422/485, RJ45 (PoE), CANBus, micro HDMI
Panel mount, VESA mount
Front IP65
-10°C to 50°C operating temperature
For less I/O demanding applications

**Accessories**

<table>
<thead>
<tr>
<th>Standard</th>
<th>2 pin Terminal Block</th>
<th>AC Adapter</th>
<th>Power Cord</th>
<th>Driver CD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting Clips and Screws</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Fruit Sorting and Packaging

“FAST SPEED AND STABLE PERFORMANCE.”

The multitouch panel PC offered advanced performance with an intuitive user interface. Being connected to a PLC through an Ethernet cable allowed the operations panel PC to ensure faster and more reliable communication.

7~15.6” Windows Multitouch HMI

E Series

“ELEGANT DESIGN.”

- 7~15.6-inch screen with P-Cap touch
- Intel® Celeron® N2930 Bay Trail-M
- Windows 10/8/7

Fanless cooling system

64 GB mSATA SSD

USB 3.0, USB 2.0

RS-232/422/485, two RJ45, HDMI 1.4a

Panel mount, VESA mount

Front IP65, 0°C to 50°C operating temperature

Accessories

Standard

<table>
<thead>
<tr>
<th>Mounting Clips and Screws</th>
<th>2 pin Terminal Block</th>
<th>AC Adapter</th>
<th>Power Cord</th>
<th>Driver CD</th>
</tr>
</thead>
</table>

Memory

Up to 4 GB

Application

Custom configuration
“JUST THE RIGHT SIZE FOR OUR APPLICATION.”

The ultra-compact HMI with a 4.3-inch multitouch screen makes this solution the right fit for machine control and data visualization on the factory floor.

4.3~15.6” Android Multitouch HMI
EL Series

“PANEL MOUNT. FITS IN CONFINED SPACES.”

- 4.3~15.6-inch screen with P-Cap touch
- Freescale™ Arm® Cortex®-A9 i.MX6
- Android 6.0, Ubuntu 16.04

Fanless cooling system
1 GB LPDDR3, 8 GB eMMC
USB 2.0 host, USB OTG
RS-485, RJ45
Panel mount, VESA mount
Front IP65, -20°C to 50°C operating temperature

Accessories

<table>
<thead>
<tr>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>VESA Plate</td>
</tr>
<tr>
<td>VESA Mounting Screws</td>
</tr>
<tr>
<td>AC Adapter</td>
</tr>
<tr>
<td>Power Cord</td>
</tr>
<tr>
<td>Driver CD</td>
</tr>
<tr>
<td>VESA Desk Stand</td>
</tr>
<tr>
<td>VESA Wall Mount Bracket</td>
</tr>
</tbody>
</table>

Utilities Control

"JUST THE RIGHT SIZE FOR OUR APPLICATION."

The ultra-compact HMI with a 4.3-inch multitouch screen makes this solution the right fit for machine control and data visualization on the factory floor.
10.4~23.8” Windows Multitouch HMI PP Series

“HIGH COMPUTING PERFORMANCE. PANEL MOUNT.”

- 10.4~23.8-inch screen with P-Cap touch
- Intel® Core™ i5-7200U
- Intel® Celeron® N2930 Bay Trail-M
- Windows 10/8/7

Fanless cooling system
Brightness adjustment knob
Two USB 3.0
RS-232, RS-232/422/485, two RJ45, HDMI 1.4
Panel mount, VESA mount
Front IP65, 0°C to 50°C operating temperature

Accessories

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

Custom configuration

<table>
<thead>
<tr>
<th></th>
<th>Up to 16 GB</th>
<th>Up to 256 GB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Memory</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Storage</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Operator Control and Monitoring

“VIVID GRAPHICS AND USER-FRIENDLY CONTROLS.”

Accurate machine control and monitoring with vivid images depicted on a 21.5-inch screen with crystal clear resolution for more complex graphics inside smart factory.
7~23.8” Windows Multitouch HMI PO Series

“OPEN FRAME. BEST FOR KIOSK APPLICATIONS.”

- 7~23.8-inch screen with P-Cap touch
- Intel® Celeron® N2930 Bay Trail-M
- Intel® Core® i5-7200U Kaby Lake
- Windows 10/8/7

Fanless cooling system

64 GB mSATA SSD

2 x Mini PCIe (For Wi-Fi and 3G module)

USB 3.0, USB 2.0

RS-232/422/485, two RJ45, HDMI 1.4

Open frame

Front IP65, 0°C to 50°C operating temperature

Accessories

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

Self-Service Payment Kiosk

“THE SYSTEM MEETS EMV BANKING SECURITY STANDARD”

By installing a self-service payment kiosk with Winmate’s 15-inch open frame HMI and data reader components, the gas station was able to bring automation to the kiosks.
15~21.5” Chassis Multitouch HMI PT Series

"STANDALONE. FOR YOUR POINT-OF-SALE APPLICATION."

- 15~21.5”-inch screen with P-Cap touch
- Intel® Celeron® N2930 Bay Trail-M
- Freescale™ Arm® Cortex®-A9 i.MX6 Dual/Quad-core
- Windows 10/8/7 or Android 6.0

Fanless cooling system
Two 1 Watt speakers
USB 2.0
RS-232/422/485, RJ45
Chassis, VESA mount, standalone
Front IP65, 0°C to 50°C operating temperature

Accessories

| Standard       | AC Adapter | Power Cord | Driver CD |

Quality Control Room

“DURABLE, VERSATILE AND EASY TO USE.”

The 15-inch chassis HMI now works as a monitor in a quality control room of the food factory. User-friendly interface with multitouch allows intuitive user controls to check all the details of the product samples.
DIN-Rail Embedded Computer
IBDRW100-EX

“COMPACT AND RUGGED. FOR HAZARDOUS LOCATIONS.”

- DIN-Rail mount for industrial automation
- Intel® Celeron® Bay Trail-M N2930
- Windows 10/8/7

Certified Class 1, Division 2 & ATEX Zone 2
Certified AWS IoT Greengrass
Fanless cooling system
64 GB mSATA SSD
One USB 3.0, three USB 2.0
RS-232/422/485, VGA
Four RJ45, 20 Pin DI/DO
+9~36V DC power input with isolation
-20°C to 60°C operating temperature

**Application**

“STABLE PERFORMANCE IN A COMPACT RUGGED DESIGN.”

This DIN Rail Box PC was integrated as the system controller for a petrochemical plant monitoring onsite data.

**Petrochemical Processing Plant**

**Accessories**

<table>
<thead>
<tr>
<th>Standard</th>
<th>Open Wire Power Cable</th>
<th>10 pin Terminal Block female connector for DIDO</th>
<th>3 Pin Terminal Block to 2.5 female adapter</th>
<th>Power Cord</th>
<th>Power Cord</th>
<th>Driver CD</th>
<th>Cable Holder Clip</th>
<th>DIN Rail Mounting Clip</th>
</tr>
</thead>
</table>

**Custom configuration**

- Up to 8 GB Memory
- Up to 256 GB Storage
- Up to 215 GB 2nd Storage
- Wi-Fi

**4G**

4G LTE
IoT Gateway
EAC Mini EACIL20

“CONNECT EVERYTHING. CONTROL EVERYWHERE.”

- Intel® Celeron® N3350 Apollo Lake
- Windows 10, 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</td>
<td>AC Adapter 12V/36W</td>
</tr>
<tr>
<td>Female Adapter Cable</td>
<td>VESA Mount Kit</td>
</tr>
<tr>
<td>Open Wire Cable with</td>
<td>DIN Rail Mount Kit</td>
</tr>
<tr>
<td>terminal block 2 pin connector</td>
<td></td>
</tr>
</tbody>
</table>

“REDUCE BUILDING MAINTENANCE AND OPERATIONS COST.”

Modern factory that consist of several buildings installed Winmate’s solution for utility management. Complex system includes automation to control HVAC, lighting, utility consumption and access control systems.

Custom configuration

Memory

- Up to 4 GB
- Up to 128 GB

Storage

- Up to 1 TB

mSATA

SMA Antenna

Expansion Module

CONNECT EVERYTHING.
CONTROL EVERYWHERE.
IoT Gateway
EAC Mini EACIL21

“TRANSFER POWER AND DATA SIMULTANEOUSLY.”

- Intel® Celeron® N3350 Apollo Lake
- Windows 10, 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

Application
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.

Equipment
Automation in a Car Factory
“OPTIMIZE OPERATIONS OF SURFACE POLISHING STATION.”

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>Single-side Lockable USB Type-C Cable</td>
</tr>
<tr>
<td>Open Wire Cable with terminal block 2 pin connector</td>
<td>Dual-side Lockable USB Type-C Cable</td>
</tr>
<tr>
<td>WLAN External Antenna</td>
<td>DIN Rail Mount Kit</td>
</tr>
<tr>
<td>AC Adapter 12V/36W</td>
<td>USB Type-C Male Cable</td>
</tr>
</tbody>
</table>
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, Ubuntu 16.04
• Waterproof enclosure

Custom configuration

Storage 128 GB
SMA Antenna

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

Standard
M12 to Open Wire DC Cable  WLAN External Antenna

Optional
Waterproof RJ45 LAN to Standard RJ45 LAN Cable
Waterproof USB Type-A male to Standard USB
M12 to Open Wire DC with CANBus Cable
VESA Mount Kit
Type-A female Cable

Waterproof USB Type-C to Standard USB Type-C Cable
Waterproof USB Type-C to Lockable USB Type-C Cable

Intel® Celeron® N3350 Apollo Lake
Windows 10, Ubuntu 16.04
Waterproof enclosure
“OPEN SOURCE PLATFORM ALLOWS CUSTOMIZATION.”
A customer decided to deploy an Android-based gateway for automation of a modern brewery. Android platform enables easy customization and shortens software development cycle.

**Beer Factory Automation Systems**

**IoT Gateway**
**EAC Mini EACFA20**

**Custom configuration**

- Up to 2 GB Memory
- Up to 64 GB Storage
- SMA Antenna
- Expansion Module

**Application**

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
16GB 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**

**Standard**
- Terminal Block 2 pin to 2.5Ø
- Female Adapter Cable

**Optional**
- Open Wire Cable with terminal block 2 pin connector
- AC Adapter 12V/36W

**WLAN External Antenna**
**WWAN External Antenna**

**VESA Mount Kit**
**DIN Rail Mount Kit**
Embedded Computing

EAC PRO-IK90

```
ABUNDANT I/O CONNECTIVITY.
```

- Flexibility, connectivity and multi-expansion
- 6th Generation Intel® Xeon E3
- 7th Generation Core™ i7/i5/i3
- Windows 10 IoT Enterprise

Fanless cooling system
64 GB mSATA SSD
2 x Swappable 2.5” SATA 3.0 (6 Gb/s)
2 x Onboard 2.5” SATA 3.0 (6 Gb/s)
Support RAID 0/1/5/10
USB 3.0, USB 2.0
RS-232/422/485, two RJ-45, HDMI 1.4a
Active three display VGA + DP + DP
Optional Wi-Fi or 3G
Panel mount, VESA mount
-15°C to 55°C operating temperature

Accessories

<table>
<thead>
<tr>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting Clips and Screws</td>
</tr>
</tbody>
</table>

Factory Control Point

“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.
Embedded Automation Controller
I330EAC-IKW

Custom configuration

<table>
<thead>
<tr>
<th>Memory</th>
<th>Storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 16 GB</td>
<td>Up to 512 GB</td>
</tr>
</tbody>
</table>

Application

Industrial Machine Equipment Automation

“HIGH PROCESSING POWER AND ABUNDANT INTERFACES.”

The I330EAC-IKW installed inside industrial machine to connect industrial equipment for automated process of a chocolate production line in Europe.

“ FOR HEAVY DUTY INDUSTRIAL APPLICATIONS. ”

- Certified IEC 60945
- Intel® Core™ i5-7200U Kaby Lake
- Windows 10 IoT Enterprise

Fanless cooling system
Four USB 3.0
RS-232/422/485, two RJ45
HDMI, VGA
Shock, vibration resistant
Aluminum housing
VESAs mount, wall mount, desktop
-10°C to 55°C operating temperature

Accessories

<table>
<thead>
<tr>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC Adapter</td>
</tr>
</tbody>
</table>

“HIGH PROCESSING POWER AND ABUNDANT INTERFACES.”

The I330EAC-IKW installed inside industrial machine to connect industrial equipment for automated process of a chocolate production line in Europe.
Embedded Computing
FA30SB3-210

“ARM BASED EMBEDDED SOLUTION.”

- Aluminum housing
- Arm® Cortex®-A9 i.MX6 Dual-core
- Android 6.0, Linux 4.1.15, Ubuntu 16.04

Fanless cooling system
16 GB eMMC
USB 2.0, USB OTG
RS-232/422/485, RJ45
CANbus, micro HDMI
Micro SD/ SDHC card slot
Aluminum profile with fin housing
Desktop, wall mounting
-20°C to 60°C operating temperature

Application

Industrial equipment OEM company was looking for an Linux solution for their automatic packaging machine. The fanless Arm-based embedded computer with two RS-232, one RS-232/422/485 and DIDO ports ideally meet the customer requirements.

Custom configuration

<table>
<thead>
<tr>
<th>Memory</th>
<th>PoE</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 GB</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Micro SD</th>
<th>DIDO</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CPU</th>
<th>Quad-core</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2 x</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RS-232</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Manufacturing Automation

“LOW POWER CONSUMPTION ARM SOLUTION.”

“LOW POWER CONSUMPTION ARM SOLUTION.”

Accessories

<table>
<thead>
<tr>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 pin Terminal Block</td>
</tr>
</tbody>
</table>

22
Stainless Panel PC
IP69K Series

Custom configuration

- Up to 8 GB Memory
- AR Glass
- Glove Mode
- Mini PCIe SSD
- Up to 256 SSD Storage

Application

Production Line
Machine Controller

“FAST PRODUCT DEPLOYMENT IN THE FACTORY.”

Sealed to IP69K Winmate’s 15-inch stainless panel PC was deployed as a machine controller in the biscuit production line.

“WITHSTANDS HIGH PRESSURE WASHDOWNS. EASY-TO-CLEAN.”

- 10.4~21.5-inch screen with P-Cap touch
- Intel® Celeron® N2930 Bay Trail-M
- Intel® Core™ i5-7200U Kaby Lake
- Windows 10/8/7

4 GB DDR3L 1600
64 GB mSATA SSD
USB A-Type
RS-232
RJ45-10/100/1000 Mbps
VESA mount, yoke mount
SUS304 stainless steel
Power input 12V DC, lockable power jack
IP69K waterproof and dustproof
Operating temperature 0~45°C

Accessories

Standard
AC Adapter  Power Cable  Power Converter Cable  RS-232 Cable  VESA Screws

Optional
USB Cable for Touch
"MEET HIGH HYGENIC
REQUIREMENTS."

- 10.4~21.5-inch screen with P-Cap touch
- Chassis housing
- IP69K-rated

VGA input
USB A-Type
SUS304 stainless steel
VESA mount, yoke mount
Power input 12V DC, lockable power jack
IP69K waterproof and dustproof
Operating temperature -10~55°C

Accessories

<table>
<thead>
<tr>
<th>Standard</th>
<th>Power Cable</th>
<th>VGA Cable</th>
<th>USB Cable for Touch</th>
<th>VESA Screws</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC Adapter</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optional</td>
<td>DVI Cable</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Chemical Manufacturing

"RESISTANT TO CORROSION AND HIGH PRESSURE WASHDOWNS:"

The IP69K displays were installed in the automatic packaging production line of a pharmaceutical plant. Corrosion resistance and IP69K rating of the unit meets the hygienic requirements.
Stainless Panel PC
IP67 Series

**Custom configuration**

- **Up to 8 GB** Memory
- **2.5” HDD**
- Resistive Touch

**Application**

"SCRATCH RESISTANT TOUCH SCREEN."

- 10.4~21.5-inch screen with resistive touch
- Intel® Celeron® N2930 Bay Trail-M
- Windows 10/8/7

- 4 GB DDR3L 1600
- 64 GB mini PCIe SSD
- USB Type-A
- RS-232
- RJ45-10/100/1000 Mbps
- SUS304 stainless steel
- VESA mount, yoke mount
- Power input 12V DC, lockable power jack
- IP67 waterproof and dustproof
- Operating temperature 0~45°C

**Industrial Machine Control**

“RESISTANT TOUCH AND EXCELLENT PANEL VIEWABILITY”

Sealed to IP67, Winmate’s 10.4-inch stainless panel PC now helps operator to control pasta machine. After every shift, the operator uses water to clean the unit to meet the requirements of food safety authorities.

**Accessories**

**Standard**

- AC Adapter
- Power Cable
- RS-232 Cable
- Ethernet Cable
- USB Cable
- VESA Screws
Stainless Display
IP67 Series

RUGGED AND RELIABLE.

- 10.4~19-inch screen with resistive touch
- Chassis housing
- IP67-rated

VGA input
USB A-Type
SUS304 stainless steel
VESEA mount, yoke mount
Power input 12V DC, lockable power jack
IP67 waterproof and dustproof
Operating temperature -10~55°C

Accessories

| Standard   | AC Adapter | Power Cable | VGA Cable |

Custom configuration
Resistive Touch Black Coating

Application

“DECREASE DOWNTIME”

As a part of access control system of the security checkpoint, water and dust resistant display was installed to show the status of a particular cargo truck to the controller.
Automatic Sorting Line

“MAKES SORTING FASTER AND MORE ACCURATE.”

New fully automated parcel sorting station now has a waterproof IP65-rated panel PC that helps operator to visualize the status and package distribution within the sorting station.

Stainless Panel PC
IP65 Series

“STAINLESS RUST PROOF HOUSING”

- 10.4~21.5-inch screen with P-Cap touch
- Intel® Celeron® N2930 Bay Trail-M
- Intel® Core™ i5-7200U Kaby Lake
- Windows 10/8/7

4 GB DDR3L 1600
64 GB mini PCIe SSD
USB Type-A
RS-232
RJ45-10/100/1000 Mbps
SUS304 stainless steel
VESA mount, yoke mount
Power input 12V DC, lockable power jack
IP65 waterproof and dustproof
Operating temperature 0~45°C

Accessories

<table>
<thead>
<tr>
<th>Standard</th>
<th>Power Cable</th>
<th>RS-232 Cable</th>
<th>Ethernet Cable</th>
<th>USB Cable</th>
<th>VESA Screws</th>
</tr>
</thead>
</table>

Custom configuration

- Memory
- AR Glass
- Resistive Touch
- Glove Mode

Application

“MAKES SORTING FASTER AND MORE ACCURATE.”

- Compatibility with various operating systems and configurations
- Durability with stainless steel and IP65 rating
- Enhanced productivity with intuitive touch interface
- Compatibility with various peripherals for extended functionality
Stainless Display
IP65 Series

“RUGGED AND RELIABLE.”

- 10.4~21.5-inch screen with resistive touch
- Chassis housing
- IP65-rated

VGA input
USB A-Type
SUS304 stainless steel
VESA mount, yoke mount
Power input 12V DC, lockable power jack
IP65 waterproof and dustproof
Operating temperature -10~55°C

Accessories

**Standard**

<table>
<thead>
<tr>
<th>AC Adapter</th>
<th>Power Cable</th>
<th>VGA Cable</th>
</tr>
</thead>
</table>

Custom configuration

- Resistive Touch
- Black Coating
- Glove Mode

Application

“AUTOMATION HELPED US REDUCE COSTS AND IMPROVE PROFIT MARGINS.”

Semi-automated packaging machines on the production line significantly increase packaging line flexibility. Automation results in smooth production and efficiency increase.
**Beverage Bottling Plant**

“ABLE TO WITHSTAND ANY ENVIRONMENTS.”

The Full IP65 Box PC was configured to be a machine controller in a beverage bottling line. The operator wanted to ensure constant uptime, and required waterproof interface for protection against spills.

---

**Embedded Computing**

**F65EAC-IK32**

- **Intel® Core™ i5-7200U Kaby Lake**
- **Windows 10 IoT Enterprise**
- **IP65-rated**

**Intel® chipset**
- Three USB 2.0
- RS-232
- Two RJ45
- VGA
- +9~36V DC power input with isolation
- Vibration, shock resistance
- Aluminum housing
- Desktop, wall mount
- IP65 water and dust proof
- 0~50°C operating temperature

**Accessories**

- Mounting Clips and Screws
- Power Cable with Adapter
- DC Power Cable
- Serial Cable
- USB Cable
- VGA Cable
- LAN Cable
- Driver CD
EL SERIES HMI
COMPACT AND
ERGONOMIC HMI
SOLUTION FOR
YOUR PROCESSES
VISUALIZATION
NEEDS.
Contact Us

Winmate Inc.
No.111, Shing-De Rd.,
San-Chung District,
New Taipei City 24158, Taiwan
Tel  +886-2-8511-0288
E-mail sales@winmate.com.tw
Website www.winmate.com

Winmate USA Inc.
2640 Mathews Street,
Smyrna, GA 30080, USA
Tel  +1-770-274-3381
E-mail NASales@winmate.com.tw
Website www.winmate-rugged.com

TTX Canada Inc.
150 Werlich Drive, Units 5&6
Cambridge, Ontario, N1T 1N6 Canada
Tel  +1-519-621-1881
E-mail Sales@ttx.ca
Website www.ttx.ca

北京京融电自动化科技有限公司
Room 811, Building 23,
Shang Di Jia Yuan, Haidian District,
Beijing City, 100085 China
Tel  +86-10-82743702
E-mail sales@winmate.com.cn
Website www.winmate.com.cn