

# TRANSPORTATION

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CONNECTIVITY FOR  
VEHICLES ON THE ROAD

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# 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.

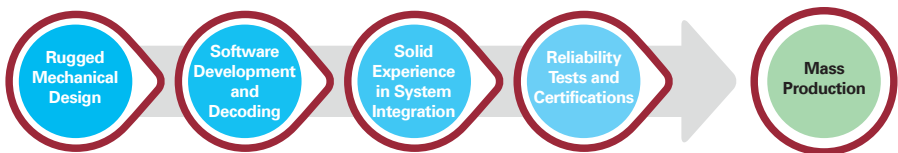
From product design to accessories, our engineering team designs and support the system integration process.

- 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

# Logistics and Transportation

## Overview

In the warehouse environment, the ability to mount mobile devices and computers to forklifts, trucks, tuggers, and inventory pickers is essential for maximizing productivity. From inventory management to order fulfillment, asset tracking, shipping, and receiving, the warehouse floor is a complex ecosystem requiring highly efficient technology to keep things running smoothly.

### **Our vehicle mount computers include:**

- The latest Android™ or Windows® operating system
- Robust wireless communications
- Vehicle mounting solutions

Winmate's rugged vehicle-mounted computers and rugged tablets are designed to fit seamlessly into forklifts and other warehouse vehicles, which helps minimize errors, streamline ordering and inventory management, and improve operational efficiencies.

## Industrial Challenges

### • **In-vehicle installation**

Computer hardware tailored for warehouse and logistics must be compatible with RAM mount or VESA mount in-vehicle installation methods.

### • **Unstable power supply from the vehicle**

Instability during start-up and shutdown can cause system crashes and restarting issues. Devices that receive power from the vehicle must have a solution to ensure stable performance in unstable power supply situations.

### • **Working in cold storage areas**

In a large warehouse environment, forklifts frequently go back and forth between the cold storage areas and room-temperature environments. The computer devices must show stable performance in low and high temperatures.

### • **Driver's safety**

The computer must not distract the driver.

### • **Strong vibration**

Devices installed on a forklift must be rugged enough to withstand all-day operations and vibration from the vehicle.

## Technology

- RAM mount and VESA mount solutions
- Wide-range power input and ignition control
- Built-in defroster to work in cold storage
- Screen blanking function to automatically control screen behavior
- Waterproof, dust, and drop resistant IP65-rated enclosure
- Accessories tailored for warehouse and logistic applications



**WE DELIVER RUGGED COMPUTING SOLUTIONS  
FOR YOUR LOGISTICAL NEEDS.**



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## **RUGGED TABLETS**

Portable and wireless rugged tablet computers can survive in any environment and get real work done.

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## **VEHICLE-MOUNTED COMPUTERS**

Rugged vehicle-mounted computers are used for data collection in the warehouse and logistic applications, designed to fit seamlessly into forklifts, trucks, and other vehicles.

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## **TABLET FOR VEHICLE MOUNT COMPUTERS**

A tablet for Vehicle Mount Computers is a rugged device designed to withstand harsh environments. It securely attaches to a vehicle dashboard or windshield, serving as a mobile workstation. These tablets run applications like navigation, fleet management, and diagnostics, while connecting to peripherals. Winmate's rugged tablets integrate seamlessly into vehicle mount computers, empowering frontline workers in logistics, manufacturing, and public safety.

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# Application Story

## Heavy Duty Trucks



### Background

Integrating connected vehicle technology into the trucking sector presents enormous potential for creating safer and more efficient roadways. Winmate provides fixed-mounted computers for conventional field service fleet management to perform location tracking and task management.

### Core Products

- GS Series Full IP65 Panel PC
- Embedded Box PC F65EAC-1K32

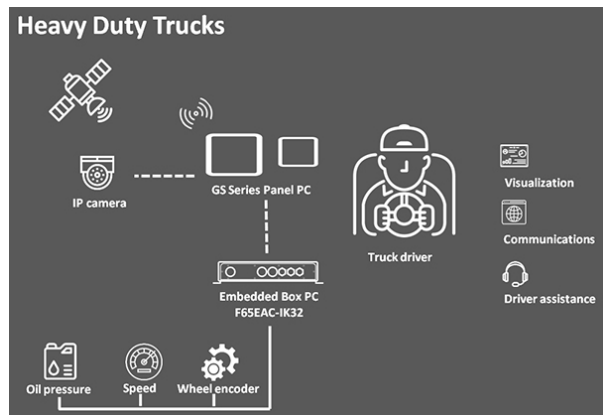
“ PROVIDE CONNECTIVITY FOR VEHICLES ON THE ROAD. ”

### Main Challenges

- Connectivity in remote locations

### Why Winmate

- Provide solution to enhance signal
- Devices resist strong vibration
- Customized BIOS



Application Diagram: Truck automation

# Application Story

## Train Cabin Operator Panel



### Background

Winmate provides total solution for information display and computing for railway transportation. In the control room, Winmate offers displays of various sizes, and a full array of mounting options for limited installation space in trains. For computing needs, our EAC computer box provides I/O, thermal, and anti-shock requirements in a train. In addition, for passengers on board, we have displays to show timing information, as well as playing back entertainment or advertisement clips.

### Core Products

- 10.4" G-WIN Panel PC R10IK3S-VMT2
- EAC Box PC

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**RELIABLE AND DURABLE DISPLAY SOLUTION FOR NAVIGATION AND TASK MANAGEMENT**

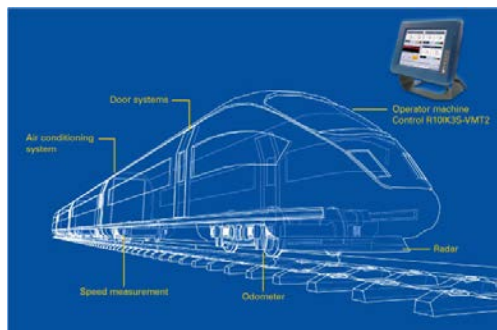
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### Main Challenges

- Strong vibration
- Operating in cold environments

### Why Winmate

- Vibration resistant design
- EN50155 EMC test report
- Offers a solution for operating in extreme temperatures -20°C to 60°C
- Strong hardware design capabilities to accommodate various truck configurations.



Application Diagram: The dashboard cabin

# Application Story

## Urban Waste Collection



### Background

An innovative waste management company catering to millions of residents through municipal services deploys the IoT for intelligent waste collection. Yet, they were looking for a rugged Android-based vehicle-mounted computer to help integrate the data collected through the sensors, and RFID readers, then communicate with the command center to take their truck tracking system to the next level.

### Core Products

- 10.4" FM10Q vehicle-mounted computer

“**A SMART IN-VEHICLE  
COMPUTING SOLUTION  
FOR SMART CITIES.**”

### Main Challenges

- Extreme operating environment
- Multiple I/O ports
- Reliable wireless communication capabilities.

### Why Winmate

- We provide IP65 rated and MIL-STD-810G certified rugged computers to survive the dusty waste collection environments.
- We provide a customization service to meet your specific needs.



FM10Q VMC installed firmly on the truck

# 7" Android Vehicle Mounted PC FM07M



“ **VEHICLE POWER SOLUTION.** ”

- ARM A53 Quad Core 2.0GHz Processor
- 7"; 1024 x 600 panel with projected capacitive multi-touch screen
- Android 11, Linux Yocto, Linux Ubuntu OS

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Wide power input 9-24V DC with ignition

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Wide-range operating temperature

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RAM mount, support VESA mount

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M12 waterproof connectors , IP65 waterproof and dustproof

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Shock and vibration resistance according to MIL-STD-810H

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Support Android or Linux operating system

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## Custom Configuration



WWAN



NFC RFID  
Reader



SIM Card Slot

## Application



### **Easy In-Vehicle Installation**

**SUPPORTS BOTH VESA  
AND RAM MOUNTS**

Winmate FM07M supports both VESA mount and RAM mounts to help you save the time and ease installing the vehicle-mounted computer. The FM07M is easily mounted and fully-rugged, helps you to have higher work efficiency.

# 7" Vehicle Mounted Computer with M12 connector

## FM07/ FM07E

### Custom Configuration

Up to  
**16 GB**

Memory  
(FM07E)

Up to  
**8 GB**

Memory



WWAN



### Application



### Warehouse Management

IMPROVE OPERATIONAL EFFICIENCIES WITH VEHICLE MOUNTED COMPUTERS

Winmate's vehicle-mounted computers are designed to fit seamlessly into forklifts and other vehicles in a warehouse complex. With a range of mounting options and high-performance Intel processors to choose from, these VMCs can minimize errors and streamline inventory management.

“ **VIBRATION AND SHOCK-PROOF DESIGN.** ”

- Intel Celeron N3350 or Intel Pentium N4200 (FM07)
- Intel Celeron N6211 (FM07E)
- 7", 1024 x 600 panel with projected capacitive Multi-Touch screen
- Wide power input 9-36V DC with ignition
- Windows 10 IoT Enterprise, Linux, Ubuntu 20.04 (Optional)

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M12 waterproof connectors

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IP65 waterproof and dustproof

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Shock and vibration resistance according to MIL-STD-810G

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Programmable function keys

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Built to survive the extreme temperature range

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# 10.4" / 12.1" / 14" Android Forklift Computers

## FM10Q-V/ FM12Q-V/ FM14Q-V



## “ WIDE RANGE OPERATING TEMPERATURE. ”

- All in one design, integrated I/O function
- Qualcomm Snapdragon™ 660 octa-core, 2.2 GHz CPU, Android 9
- 10.4" / 12.1", 1024 x 768 Panel with P-CAP touchscreen
- 14", 1920 x 1080 Panel with P-CAP touchscreen

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Wide power input 10-60V DC with ignition

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Wide range operating temperature

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Support VESA mount

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Compact housing with anti-scratch P-Cap multi-touch screen

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Vibration and shock-proof design ensure reliable performance

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IP65 waterproof and dustproof vehicle mounted computer

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### Custom Configuration



WWAN



GPS/  
GLONASS



UPS  
Battery



Brightness



CANBUS



DIDO



Audio

### Application



### Reliable And Rugged

#### WORKABLE IN HOT AND COLD WAREHOUSE

To meet the challenging nature of cold chain solutions, our rugged computers are built with thermal sensors to automatically activate and deactivate the defroster (optional) to avoid inner condensation and provide stable performance.

## Custom Configuration



WWAN



GPS/  
GLONASS



UPS  
Battery



Brightness



CANBUS



DIDO



Audio

## Application



## Minimize Errors and Streamline Inventory Management

### WITH A RANGE OF MOUNTING OPTIONS

The vehicle mounted computers or tablet PCs installed on a forklift must be rugged enough to withstand all-day operations with vibration from the vehicle.

## 10.4" / 12.1" / 14" Windows Vehicle Mounted PC

# FM10E-V / FM12E-V / FM14E-V



FC CE

## “ WIDE RANGE OPERATING TEMPERATURE. ”

- All in one design, Integrated I/O function
- FM10E-V, FM12E-V : Intel® Elkhart lake x6413E
- FM14E-V : Intel® Elkhart lake x6425E
- 10.4" / 12.1", 1024 x 768 Panel with P-CAP touch screen
- 14", 1920 x 1080 Panel with P-CAP touch screen

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IP65 waterproof and dustproof

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Wide power input 10-60V DC with ignition

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Wide range operating temperature

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Support VESA mount

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# 10.4" / 12.1" / 14" Windows Vehicle Mounted PC

## FM10AD-V/ FM12AD-V/ FM14AD-V



## “ ENABLE AUTOMATION IN THE WAREHOUSE. ”

- All in one HMI design, Integrated I/O function
- 12th Gen. Intel® Processor Family – Alder Lake Processor
- 10.4" / 12.1"; 1024 x 768 Panel with P-CAP touch screen
- 14"; 1920 x 1080 Panel with P-CAP touch screen

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IP65 waterproof and dustproof

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Wide power input 10-60V DC with ignition

---

Wide range operating temperature

---

Support VESA mount

---

### Custom Configuration



WWAN



GPS/  
GLONASS



Brightness



CANBUS



DIDO



Audio

### Application



### **Advanced Communications**

#### ENABLE UNINTERRUPTED COMMUNICATIONS

In a large warehouse environment, forklifts usually go back and forth between the cold and regular ambient storage. The rugged computers must show the same stable performance in both low and high temperatures.

# 10.4" / 12.1" Android Vehicle Mounted PC FM10Q/ FM12Q

## Custom Configuration



WWAN



Brightness  
up to 800 nits



UPS Battery



GPS



FCC E

## Application



### Forklift Automation

#### MEETING A VARIETY OF CUSTOMER REQUIREMENTS

Winmate's FM10Q/FM12Q are powerful vehicle mounted computers that features a Qualcomm® Snapdragon™ 660 CPU and Android 9.0 operating system. The Android-based platform allows fast development of a variety of customized applications for every level across the enterprise.

“FOR YOUR UNIQUE ANDROID  
IN-VEHICLE APPLICATION.”

- 10.4" / 12.1", 1024 x 768, P-CAP touchscreen
- Qualcomm® Snapdragon™ 660 octa-core, 2.2 GHz

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RAM mount/VESA mount

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Field replaceable front panel to reduce service costs

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IP65 waterproof and dustproof vehicle mounted computer

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Wide range -30°C to 60°C operating temperature

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GPS/ GLONASS, G-sensor, Temp. sensor

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Aluminum Alloy Housing

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Fanless design

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1 x USB 3.0 Type-C (OTG) (tablet), 1 x DB9 connector for 2 x USB 2.0 port (docking)

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# 10.4" / 12.1" Windows Vehicle Mounted PC

## FM10E/ FM12E



## “ DATA COLLECTION IN LOGISTICS APPLICATIONS. ”

- 10.4" / 12.1", 1024 x 768 Panel with P-CAP Touch
- Intel® Elkhart lake x6413E Processor
- Windows 10 IoT Enterprise

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4 GB SODIMM DDR4-3200, 128 GB M.2

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WLAN, BT, GPS/AGPS

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G-Sensor, light sensor, temperature sensor

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2 MP front camera

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RAM mount, support VESA mount

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Power input 10-60V DC with ignition control

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IP65 waterproof and dustproof

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MIL-STD-810H vibration, shock resistant

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### Custom Configuration



Memory



Storage



WWAN

### Application



### Forklift Automation

**ULTRA-RUGGED  
TOUCH SCREEN  
FOR THE TOUGHEST  
ENVIRONMENTS**

The large screen with the latest mobility platform for future-proofing, and features that will make the transition to a completely different OS as painless as possible.

## Custom Configuration



Memory



Storage



HF RFID Reader



Barcode Reader



WWAN

# 8" Windows Rugged Tablet M900P/ M900PT



## Application



## Connected Truck

### CONNECTIVITY FOR VEHICLES ON THE ROAD

Winmate developed a smart truck solution for a heavy-duty vehicle. Installed on a dashboard using a vehicle cradle, the 8" rugged tablet M900P and custom-designed vehicle gateway VG-100 now connects in-vehicle systems and allows status monitoring of semi-trucks in Europe.

“ **PORTABLE AND POWERFUL SOLUTION.** ”

- 8", 1280 x 800, P-CAP touchscreen
- Intel® Pentium® N4200 (up to 2.5 GHz)
- Windows 10 IoT Enterprise

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4 GB LPDDR4, 128 GB SSD

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Light sensor, g-sensor, Gyro

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2 MP webcam, 8 MP rear camera with autofocus

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WLAN, BT, GPS, GLONASS

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USB 3.0 (Type A), USB 3.0 (Type C), docking connector

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D-sub for vehicle gateway connection

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Built-in smart card reader (Default M900PT)

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IP65 waterproof and dustproof

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

# 10.1" Windows Rugged Tablet PC M101AD



## “ RUGGED, CUSTOM, AND READY FOR FIELD SERVICE ”

- Intel® Core™ i5-1235U Alder Lake processor
- 10.1" 1920 x 1200 IPS LED Panel with direct optical bonding
- Sunlight readable with antiglare solution
- Hot-swappable battery design
- USB TypeC port support PD 3.0 and ALT mode

The M101AD's hot-swappable battery design allows users to replace the battery without shutting down the device, ensuring continuous operation and minimizing downtime.

Compliant with MIL-STD-810H standards and rated IP65 for water and dust resistance, the tablet is built to withstand harsh industrial environments.

Featuring a USB Type-C port that supports Power Delivery 3.0 and ALT mode, as well as an integrated GigaLAN port, the M101AD offers flexible connectivity options for various peripherals and networks.

### Custom Configuration



Memory



Storage



WWAN

### Application



### Ready for Field Service

#### Optimizing Industrial Operations

The M101AD rugged tablet revolutionized fieldwork with its powerful performance, sunlight-readable display, and hot-swappable battery. It ensured seamless workflows and reliability in demanding industrial environments.

# 10.1" Windows Rugged Tablet PC M101EK

## Custom Configuration



Memory



Storage



WWAN



Micro HDMI  
Output



Smart Card  
Reader

## Application



## Distribution Center

### Boosting Field Service Efficiency

The M101EK rugged tablet empowered technicians with its durable design, long battery life, and reliable connectivity. It streamlined field operations, enabling real-time data access and seamless communication in tough environments.



**“ QWERTY KEYPAD TO INPUT  
DATA IN ANY CONDITIONS. ”**

- Intel® Elkhart Lake Celeron® N6211 Processor
- 10.1" 1920 x 1200 IPS LED Panel with direct optical bonding
- IP65 water and dust proof with MIL-STD-810H rugged housing
- Low power consumption with fanless design

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Removable battery with hot-swap function for all day productivity

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Sunlight readable with antiglare solution

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USB Type-C port supports power delivery 20V In

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Integrated 4G/5G Wireless WWAN (Optional)

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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

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Intel® Core™ i5-1135G7 Tiger Lake processor

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IP65 waterproof and dustproof

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

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Sunlight readable with anti-glare solution

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Hot-swappable battery design

---

USB Type-C port support power delivery 20V In

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## Custom Configuration

Up to  
**32 GB**

Memory

Up to  
**2 TB**

Storage



Barcode  
Reader



WWAN



HF RFID  
Reader



High  
Capacity  
Battery

## Application



## Delivery Service

### INSTANTLY ACCESS ORDER INFORMATION

The M101TG rugged tablet with an LTE module and barcode scanner boosts productivity and speeds up delivery services, giving quick access to order information anywhere you go. The solution includes a vehicle cradle for in-vehicle mounting and charging.

# 8 inch Windows Rugged Tablet PC M101EKB

## Custom Configuration



Memory Storage



WWAN



VESA Mount  
Kit



Carry Bag



Shoulder  
Strap

## Application



## Distribution Center

### Streamlining Warehouse Operations

The M101EKB rugged tablet improved inventory management with its compact design, real-time data synchronization, and durable build. It enhanced efficiency and accuracy in challenging warehouse environments.



“ QWERTY KEYPAD TO INPUT DATA IN ANY CONDITIONS. ”

- Intel® Elkhart Lake Celeron® N6211 Processor
- 8" 1280x800 wide viewing angle with PCAP touch
- ISO/IEC 99953 QWERTY Keypad
- USB Type-C port supports power delivery 20V In

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

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Low power consumption with fanless design

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Removable battery with hotswap function for all day productivity

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Integrated 4G/5G Wireless WWAN (Optional)

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# 11.6" Windows Rugged Tablet PC M116AD



## “ RELIABLE TECH FOR WATER UTILITY MAINTENANCE. ”

- 11.6" 1920 x 1080 LED Panel with PCAP touch
- Intel® Core™ i5-1235U (Up to 4.40GHz)
- Windows 10 IoT Enterprise

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IP65 waterproof and dustproof

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

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2MP Webcam , 8MP Auto-Focus Rear Camera

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Optional GigaLAN port design

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Optional 1D/2D Barcode Reader and HF RFID Reader

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Built-in Mic with Noise Cancellation

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Hot-swappable Main Battery

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### Custom Configuration



Memory



Storage



WWAN



GigaLAN  
Port



Barcode  
Reader



HF RFID  
Reader

### Application



### Service Tablets for Water Utility Maintenance

#### RELIABLE TECHNOLOGY IN EVERY SITUATION

Winmate rugged mobile computers deployed for receiving work instructions, sending and receiving data, infrastructure maps, and photographic evidence for electronic work records.

# 11.6" Windows Rugged Tablet M116TG

## Custom Configuration



Memory



Storage



WWAN



GigaLAN  
Port



Barcode  
Reader



HF RFID  
Reader



## Application



### Machinery & Equipment Inspections

#### HIGH PROCESSING POWER AND BRILLIANT TOUCH SCREEN

The M116TG features high processing power and a brilliant 11.6" touch screen, ideal for checking operation manuals and SOP procedures for live inspection and production supervision.

“ **HIGH PROCESSING POWER  
IN A RUGGED ENCLOSURE.** ”

- 11.6", 1920 x 1080, 850 nits IPS LED Panel with direct optical bonding
- Intel® Core™ i5-1135G7 Tiger Lake processor
- Windows 10 IoT Enterprise

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IP65 waterproof

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

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Sunlight readable with antiglare solution

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Hotswappable battery design

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USB Type-C port support power delivery 20V-in

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# RELIABLE COMPUTING SOLUTIONS FOR NAVIGATION AND TASK MANAGEMENT.



**M900P/PT SERIES  
9" RUGGED TABLET**



**M101S  
10.1" WINDOWS  
RUGGED TABLET**



**VMC SERIES  
7" ~12.1" VEHICLE  
MOUNTED COMPUTER**



FM14AD-V

FM10Q-V

**WINMATE**

*Convenient operation and efficient data input with*

# **WINMATE ALL-IN-ONE DESIGN VEHICLE COMPUTING SOLUTIONS.**



**FM12E**

**FM12Q-V**

**FM10E-V**

**FM07E**



**WINMATE**

*DELIVERING RUGGED PERFORMANCE  
AND SEAMLESS CONNECTIVITY FOR  
INDUSTRIAL VEHICLES*

# **WINMATE TABLET FOR VEHICLE MOUNT COMPUTER**

**M101AD**



**M101EK**



**M101EKB**

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