

**WINMATE**

[www.winmate.com](http://www.winmate.com)



# AUTOMOTIVE INDUSTRY

COMPACT TEST TOOL  
FOR QUALITY CONTROL  
AND TESTING

# 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.

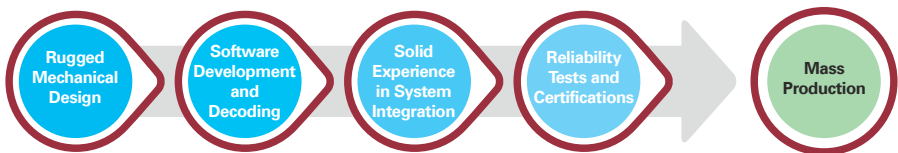
From product design to accessories, our engineering team designs and support the system integration process.

- 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

# Automotive Industry

## Overview

With our increased reliance on computers monitoring car sensors and control systems, the automotive system as a whole must be safety-critical to ensure the safety of the driver, passengers, pedestrians, and other vehicles. To improve the quality and reduce errors in these systems, automotive OEMs and suppliers require the right diagnostic tools to detect and discover any faults in automotive systems.

### **Our rugged mobile devices include:**

- The latest Windows® and Android™ operating system
- Robust wireless communications
- Application-tailored accessories

Winmate rugged tablets are designed to meet the demanding requirements of the automotive industry, providing reliable performance in harsh environments. With features like MIL-STD-810H certification, IP65-rated durability, and wide operating temperature ranges, these tablets are built to withstand shocks, vibrations, and extreme conditions commonly encountered in automotive workshops and manufacturing floors.

Equipped with high-performance processors and versatile connectivity options, Winmate rugged tablets streamline vehicle diagnostics, inventory management, and assembly line operations. Their sunlight-readable displays ensure visibility in outdoor environments, while advanced touchscreens enable seamless operation even with gloves. Additionally, the long battery life supports uninterrupted usage, making them ideal for field inspections and fleet management.

With customizable solutions to integrate CAN bus systems, OBD-II tools, and proprietary software, Winmate rugged tablets enhance productivity and precision in automotive applications, empowering professionals to optimize efficiency and reduce downtime.



# Application Story (Rugged Tablet)

## Driving Process Improvement in Automotive Industry



### Background

From the in-house test equipment on the car production factory floor to workshops and repair centers, Winmate offers car mechanics a new level of convenience. Our fully rugged tablets and mobile computers help perform car diagnostic, check operation instructions, and visualize ongoing test procedures. Modern technology helps to complete complex tasks at a lower cost and better quality, improve Quality Control (QC) at the early stages of production, and achieve higher productivity and cost reductions by using real-time data.

### Core Products

- 13.3" Ultra-Rugged Tablet M133WK Series

### Main Challenges

- Vehicle-to-device data communication
- The rigor environment of the factory floor
- After-sale service

“ MOBILE DEVICES BRING A NEW LEVEL OF CONVENIENCE, PRODUCTIVITY, AND OPERATIONAL EFFICIENCY TO THE PRODUCTION FLOOR ”

### Why Winmate

- Enhanced compatibility with the vehicle system
- Products tailored for the automotive industry
- Ruggedness and durability
- Extended warranty and dedicated customer support



Application: Vehicle Diagnostics

# Application Story (Rugged Tablet)

## Car Repair Workshop



### Background

The car repair stations require portable and yet powerful tools to speed up the inspection's maintenance service and quality. Winmate offers a rugged tablet computer for the workshop to simplify the regular inspections and maintenance. Our innovative and user-friendly robust mobile computing solutions with an optional smart card reader, RFID reader help speed up delivery services and increase customer satisfaction and retention.

### Core products

- 14" Windows Rugged Tablet

### Main Challenges

- All-in-one device
- Ability to check inventory
- Long working hours for all-day operations

“  
**MANAGE  
WORKSHOP  
INVENTORY  
EASILY WITH  
ALL-IN-ONE  
RUGGED  
TABLET  
COMPUTERS**  
”

### Why Winmate

- Rugged design
- Built-in tools for data collection
- Full-day battery life



Application: Car Repair Workshop

# Application Story (Rugged Tablet)

## To Minimize the Volume of Your Time



### Background

When a business car malfunctions, lines call for low recovery time to continue to be successful. To minimize the volume of your time motor vehicles invest in the store, required to offer its own company facility clients along with a modern technology service that accelerated the medical diagnosis.

Conventional business-class laptops pc were actually unqualified the activity, so the client opted for and also investigated units Winmate 13.3" tablet computers for their analysis as well as fixing solution set services. To time they have actually presented greater than 4,500 of their solution packages, along with Winmate Rugged Tablets, to company facilities around the nation as well as handled.

### Core Products

- 8.4" Ultra-Rugged Tablet
- 13.3" Ultra Rugged Tablet

“ PROVIDING A BETTER MOBILE COMPUTING SOLUTION. ”

### Main Challenges

- High performance processor, delivered in a lightweight tablet form factor, customized and flexible docking system, interface connection, programmable hotkey buttons, wireless communication.

### Why Winmate

- In-depth knowledge of the industry combined with in-house engineering
- Extended warranty protection



Application: Quality excellence

# Application Story (Rugged Laptop)

## Automotive Repair and Calibration



### Background

In the fast-paced world of automotive repair and calibration, precision and efficiency are paramount. From diagnosing engine issues to fine-tuning advanced driver-assistance systems (ADAS), technicians face numerous challenges, such as complex diagnostics and handling vast amounts of data, can be overwhelming.

The Winmate 15.6" Rugged Laptop is purpose-built for automotive repair and calibration. Equipped with powerful processors and compatibility with diagnostic software, the 15.6" Rugged Laptop makes complex diagnostics a breeze. Technicians can connect to vehicle onboard systems, identify issues accurately, and efficiently perform necessary repairs.

With its advanced capabilities, Winmate Rugged Laptop helps optimize vehicle performance for improved fuel efficiency and reduced emissions, aligning with the industry's sustainability trends.

### Core products

- L156AD - 15.6" Rugged Laptop

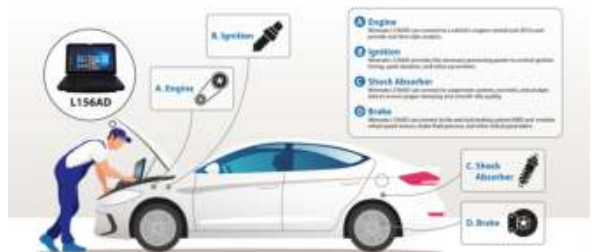
### Main Challenges

- Complex diagnostics
- Handling vast amount of data
- Long-hour battery and harsh environments

### Why Winmate

- Advanced computing solutions
- Remote support capability
- Customization and problem-solving solutions

“TURNING CHALLENGES INTO CALIBRATED SOLUTIONS”



**Application:** Enhancing Car Diagnostics and Calibration with Winmate L156AD

# Application Story (Rugged Laptop)

## Integrated Trucking Diagnostic and Repair



### Background

Over time, the trucking industry has evolved in operations, marketplace, and technologies. In the USA, the industry has experienced fluctuations throughout the year, impacting manufacturing, business models, and growth.

Trucks now feature advanced technology to meet delivery demands. Some adopt innovative solutions to enhance vehicle functionality, track the supply chain, and build customer trust by sharing journey details.

This ensures minimal downtime if a truck breaks down. To decrease workshop time, dealerships must swiftly conduct thorough vehicle checks. The optimal solution involves digitalizing check sheets and data transfer.

Conventional business laptops couldn't meet the demands. Hence, the customer opted for Winmate 14" Rugged Laptop and 10.1" Rugged Tablet for their cutting-edge automotive workshop.

### Core Products

- L140AD-4 - 14" Convertible Rugged Laptop
- S101TG - 10.1" Rugged Tablet

### Main Challenges

- Sunlight readability.
- Use in extreme service environments
- High-performance CPU for stable performance
- Long-hour battery for whole-day work

### Why Winmate

- Design for uninterrupted operation everywhere
- Device versatility
- Greater comfort with faster performance

“  
**RUGGED LAPTOP  
AND TABLET  
FOR INNOVATIVE  
AUTOMOTIVE  
WORKSHOP.**  
”



**Application:** Convertible Rugged Laptop is ready to assist the onsite technicians

## Custom Configuration



Memory



Storage  
2nd SSD



WWAN



Fingerprint  
Scanner



HF RFID  
Reader

# 13.3" / 14" Windows Rugged Laptop L140AD-3/ L140AD-4/ L140AD-4L



## Application



## Durability and Performance

The Winmate 14" rugged laptop is designed for automation applications, combining durability, performance, and versatility. Built to withstand harsh industrial environments, it features MIL-STD-810H certification and IP65-rated protection. Powered by Intel® processors, the laptop enables real-time data processing and seamless integration with automation systems, optimizing workflows. Its versatile I/O ports and wireless connectivity ensure easy communication with sensors, controllers, and other devices.

## “ INTELLIGENT WORKLOAD OPTIMIZATION. ”

- 13.3 / 14" , 1920 x 1080 LED panel with direct optical bonding
- 12th Gen. Intel® Processor Family – Alder Lake Processor
- Windows 11 IoT Enterprise

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Anti-glare technology for sunlight readability

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Projective capacitive touch supporting switchable rain/ glove/ stylus modes

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Magnesium alloy enclosure with double injection for drop protection

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IP65 waterproof and dustproof

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WLAN & WWAN 4G/5G (Optional)

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Dual battery with hot-swappable design for whole-day-work

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# 15.6" Windows Rugged Laptop L156AD/ L156AD-M1/ L156AD-4KM1



**“ BOOST PERFORMANCE  
WITH AI. ”**

- Optional discrete NVIDIA Graphic card
- 15.6" FHD and 4K Panel resolution options to fulfill diverse applications
- Windows 11 IoT Enterprise

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Anti-glare technology for sunlight readability

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Projective capacitive touch supporting switchable rain/glove/ stylus modes

---

Magnesium alloy enclosure with double injection for drop protection

---

IP65 waterproof and dustproof

---

WLAN & WWAN 4G/5G (Optional)

---

Dual battery with hot-swappable design for whole-day-work

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## Custom Configuration

Up to  
**64 GB**

Memory

Up to  
**2 TB**

Storage  
2nd SSD



WWAN



Fingerprint  
Scanner



HF RFID  
Reader



Brightness

**4K**

Ultra HD  
HDMI 4K  
Output



NVIDIA  
NVIDIA  
Graphic Card

## Application



**Crank up the  
Resolution for an  
Even Better Visual  
Experience**

**PLANNING AND  
PRODUCTION DEMAND**

Winmate 15.6" Rugged Laptop has been enhanced with cutting-edge processors, experiencing a 35% performance boost compared to earlier generations and achieving an impressive peak clock rate of 5.0GHz.

## 15.6" Windows Rugged Tablet PC with Intel® Core™ i5-1235U

# M156AD



### Custom Configuration



Memory



Storage  
2nd SSD



WWAN



Battery  
Hotswap



HF RFID  
Reader

### Application



## Enhancing Productivity in Harsh Environments

### STREAMLINES FIELD SERVICE WORKFLOWS

A nationwide utility company deployed the M156AD to support field technicians working across remote sites. Its rugged durability, long battery life, and high-brightness display ensured reliable performance during inspections. Real-time data reporting significantly reduced downtime and improved overall service efficiency.



## “ ENHANCES PERFORMANCE IN MOBILE WORKFLOWS ”

- 12th generation Intel® Processor Family - Alder Lake Processor
- 15.6" FHD Panel resolution with PCAP touch
- Sunlight readable with antiglare solution

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Hot-swappable battery design

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USB TypeC port support PD 3.0 and ALT mode

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Integrated GigaLAN Port

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MIL-STD-461G and MIL-STD-810H Compliant

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IP65 waterproof and dustproof

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# 15.6" Windows Rugged Tablet PC with Intel® Core™ i5-1235U M156AD-M3



## “ ENHANCED INTERACTION WITH VERSATILE FEATURES ”

- 12th generation Intel® Processor Family - Alder Lake Processor
- 15.6" FHD Panel resolution with PCAP touch
- Discrete Nvidia A500 Graphic card

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Sunlight readable with antiglare solution

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Hot-swappable battery design

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USB TypeC port support PD 3.0 and ALT mode

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Integrated GigaLAN Port

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MIL-STD-461G and MIL-STD-810H Compliant

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IP65 waterproof and dustproof

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### Custom Configuration



Memory



Storage  
2nd SSD



WWAN



NVIDIA  
Graphic Card



HF RFID  
Reader



Battery  
Hotswap

### Application



### Lightning-Fast Network Performance with GigaLAN Port

#### HIGH SPEED DATA AND IMAGE TRANSFER

The M156AD-M3 rugged tablet comes with a GigaLAN port, offering high-speed data and image transfers from 10 to 1000 Mbps. Ideal for factory automation and AIoT applications, it enhances productivity by minimizing latency and improving response times, ensuring swift and efficient connectivity for seamless task execution.

## 10.1" ARM Genio 700 Octa-core Android Rugged Tablet

# S101G7



### Custom Configuration



Memory



Storage



Barcode Reader



WWAN



Battery Hotswap



HDMI



NFC

### Application



### Real-time Data Connectivity

#### DATA COLLECTION TOOLS FOR MOBILE WORKFORCE

Winmate's S101G7 Rugged Tablet maximizes productivity for field workers with a built-in 13 MP rear camera, an 8 MP front camera, and optional 1D/2D barcode and NFC readers.



“ **OPTIMUM SIZE,  
MAXIMUM PRODUCTIVITY.** ”

- 10.1" 1920x1200 LED Panel with PCAP Touch
- Android 13.0

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4G RAM + 64G eMMC

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ARM Genio 700, Octa-core, up to 2.2 GHz

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Optional WWAN 4G and 5G

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MIL-STD-810H Shock / Drop / Vibration Compliant

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Optional Barcode Reader and NFC Reader

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# 10.1" Windows Rugged Tablet S101TG



“ **OPTIMUM SIZE,  
MAXIMUM PRODUCTIVITY.** ”

- 10.1", 1920 x 1200 WUXGA with P-CAP touch
- 11th Gen. Intel® Tiger Lake processor

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8 GB DDR4, 256 GB SSD, micro SDXC card slot

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Light sensor/ g-sensor/ Gyro

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2MP Webcam , 8MP Auto-focus rear camera

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Anti-glare touch treatment

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USB 3.0 Type-A, USB 3.0 Type-C, RJ45-10/100/1000 GigaLAN port, Micro SDXC slot, docking connector

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WLAN, BT, GPS, GLONASS, WWAN (Optional)

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Support hand/ gloves and rain mode

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

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## Custom Configuration



Memory



Storage



Barcode Reader



WWAN



Battery Hotswap



USB/UART Expansion Port

## Application



## **R&D and Engineering**

**TOUGH ENOUGH TO  
WITHSTAND REGULAR  
DROPS**

Light and rugged

Windows-based tablet

computer with rear camera and wireless capabilities provide fast, accurate data collection and analytics for high-pace R&D of an automotive manufacturer.

# 10.1" Windows Rugged Tablet S101EK

## Custom Configuration



Memory



Storage



WWAN



Micro HDMI  
Port



Barcode  
Reader



Expansion  
Port



Battery  
Hotswap



FC CE

**“ NAVIGATE VEHICLE HEALTH IN  
REAL TIME. ”**

- Intel® Celeron® N6211 @1.20GHz (up to 3.00GHz)
- 1920 x 1200 WUXGA with P-CAP touch rugged tablet
- Windows 10 IoT Enterprise

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2MP Webcam , 8MP AutoFocus Rear Camera

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IP65 waterproof and dustproof

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MIL-STD-810H shock, vibration and drop

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Optional 1D/2D Barcode Reader

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Sunlight readability technology

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IP65 waterproof and dustproof

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Ethernet thru Giga LAN (RJ45)

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## Application



### Empower Technicians for Swift Resolutions

**NAVIGATE EFFICIENCY,  
WHERE DATA DRIVES  
DIAGNOSIS**

Empower your technicians with the ultimate tool for precise vehicle diagnostics. Our 10" Windows rugged tablet provides real-time access to critical vehicle data, enabling quick identification and resolution of issues. Streamline diagnostics, enhance efficiency, and keep your fleet on the road.

# 10.1" Android Rugged Tablet S101M9/ S101M9L



## “ ROBUST TABLET TO WITHSTAND INDUSTRIAL USE ”

- 10.1", 1280 x 800 TFT LCD Display (S101M9L)
- 10.1", 1920 x 1200 TFT LCD Display (S101M9)
- Android 11.0
- ARM A73 x 4 (2.0 GHz) + A53 x 4 (2.0 GHz)

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4 GB RAM + 32 GB eMMC

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8.0 MP camera in front side, 13.0 MP rear camera  
(with LED auxiliary light, auto focus)

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Anti-glare touch treatment

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WLAN, BT, GPS, GLONASS, WWAN (Optional)

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Integrated 1D/2D barcode reader (Optional)

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Integrated NFC module (Optional)

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SOTI MobiControl compliance

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### Custom Configuration



NFC



Barcode Reader



WWAN



Battery  
Hotswap

### Application



### **Accelerating Digital Banking for Financial Inclusion**

**WORK SIMPLER, FASTER,  
AND BETTER WITH  
WINMATE RUGGED  
TABLET**

With Winmate's enterprise mobility solutions, companies can expand their digitalization initiatives.

# 8" ARM Genio 510 Android Rugged Tablet M900MGN

## Custom Configuration



NFC



Barcode Reader



WWAN



Battery  
Hotswap



## Application



### Reliable tech for modern logistics

DESIGNED TO  
WITHSTAND EVERYDAY  
WAREHOUSE  
CHALLENGES

The Winmate rugged tablet streamlined warehouse operations, giving logistics teams real-time data access and unmatched durability in fast-paced environments.

“ **BUILT FOR TOUGH  
OUTDOOR ENVIRONMENTS** ”

- 8" 1280 x 800 IPS LED panel with direct optical bonding
- Android 13.0
- 4G RAM + 64G eMMC
- ARM Genio 510, 2 x A78 2.0GHz + 4 x A55 2.0GHz

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Optional WWAN 4G

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Projected capacitive (PCAP) multitouch

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Sunlight readable with antiglare solution

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# 10.1" Qualcomm® 6490 Android Rugged Tablet M101Q9



## “ ROBUST TABLET TO WITHSTAND INDUSTRIAL USE ”

- 10.1" 1920x1200 LED Panel with PCAP Touch
- Android 13.0
- Qualcomm® 6490, Octa-Core, up to 2.7GHz
- Support Wi-Fi 6E

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Optional WWAN 4G and 5G

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MIL-STD-810H Shock / Drop / Vibration Compliant

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Optional Barcode Reader and NFC Reader

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### Custom Configuration



NFC



Barcode Reader



WWAN



Battery  
Hotswap

### Application



### **A Reliable Partner in Extreme Conditions**

#### **BUILT TO WITHSTAND THE HARSHEST CONDITIONS**

The Winmate rugged tablet became an essential tool for field engineers, delivering flawless performance in the unforgiving Arctic terrain.

# 10.1" Windows Rugged Tablet PC M101AD

## Custom Configuration



Memory



Storage



Barcode Reader



WWAN



RFID Reader



## Application



### Ready for Field Service

#### RUGGEDNESS THAT SAVES YOU MONEY

Winmate rugged computer tablets come with various custom accessories, including a desk dock, hand strap, vehicle dock, high-capacity battery, and many more.

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

- 10.1", 1920x1200 IPS LED Panel with PCAP touch
- Intel® Core i5-1235U Alder Lake processor
- Windows 11 IoT Enterprise

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Sunlight readable with antiglare solution

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IP65 waterproof and dustproof, MIL-STD-461G and MIL-STD-810H Compliant

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Hot swappable battery design

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USB Type-C port support power delivery and ALT mode

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WLAN, BT, GPS, GLONASS, WWAN (Optional)

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# 10.1" Windows Rugged Tablet M101TG



“ **OPTIMUM SIZE,  
MAXIMUM PRODUCTIVITY.** ”

- 10.1", 1920 x 1200 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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Hot-swappable battery design

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

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## Custom Configuration



Memory



Storage



Barcode Reader



WWAN



RFID Reader

## Application



## **Quality Inspection**

**THE PERFECT  
BALANCE BETWEEN  
FUNCTIONALITY AND  
FORM FACTOR**

The M101TG rugged tablet computers with the quality inspection software app installed serve at the factory's quality inspection department. Maintenance of department, premises, equipment, and learning is now easier than ever with the M101TG.

# 10.1" Windows Rugged Tablet PC with Intel® Celeron® N6211 M101EK

## Custom Configuration



Memory



Storage



Smart Card Reader



WWAN



Barcode Reader



Expansion Port



HF RFID Reader



Battery Hotswap



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

## 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.

- 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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# 11.6" Windows Rugged Tablet PC M116AD



## “ RELIABLE TECH FOR WATER UTILITY MAINTENANCE. ”

- 11.6" 1920 x 1080 LCD Panel with PCAP touch
- Intel® Core™ i5-1235U (Up to 4.40GHz)
- Windows 11 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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  - USB TypeC port support power delivery 20V In

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### Custom Configuration

 Up to <b>32 GB</b> Memory	 Up to <b>2 TB</b> 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-461G, 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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# 11.6" Windows Rugged Tablet M116P/ M116PT



“ **BRILLIANT SUNLIGHT  
READABLE SCREEN.** ”

- 11.6", 1920 x 1080, P-CAP touchscreen
- Intel® Pentium® N4200 1.1 GHz, 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, WWAN (Optional)

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

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Integrated Smart Card Reader (M116PT)

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IP65 waterproof and dustproof

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

## Custom Configuration



Memory



Storage



WWAN



GigaLAN  
Port



Barcode  
Reader



HF RFID  
Reader



Smart Card  
Reader

## Application



### Automotive Manufacturing

SUITABLE FOR FACTORY  
ENVIRONMENT

The M116P series rugged tablet features high processing capabilities, wireless connectivity options, and data capture modules for extraordinary performance.

# 13.3" Windows Ultra-Rugged Tablet M133TG/ M133MT

## Custom Configuration



Memory



Storage



Rear Camera



Second Storage



WWAN



HF RFID Reader



Barcode Reader



## Application



### Automotive Diagnostic Tool

EMPOWERING  
MECHANICS WITH  
FUNCTIONAL  
EXCELLENCE

Maximize your repairs with the M133TG tablet's versatile kickstand, user manual access, and powerful data visualization, enhancing service quality for car owners.

“ **CRAFTED BY MECHANICS,  
PERFECTED FOR REPAIRS.** ”

- 13.3", 1920 x 1080, IPS wide viewing angle LED panel
- Intel® Core™ i5 -1135G7 Tiger Lake Processor
- Windows 10 IoT Enterprise

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Removeable kickstand usable as carrying handle

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Magnesium alloy housing with allaround elastomeric rubber

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Fanless cooling system

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TPM 2.0, Kensington lock

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Support BT, WLAN

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IP65 waterproof and dustproof

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

# 14" Windows Rugged Tablet M140TG/TGT



“**INSPIRED BY CAR MECHANICS.  
DESIGNED FOR REPAIR SERVICES.**”

- 11th Gen. Intel® Processor Family – Tiger Lake Processor
- 14", 1920 x 1080 wide viewing angle LED Panel
- Windows 10 IoT Enterprise

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Optical bonding and anti-glare technology for sunlight readability

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IP65 waterproof and dustproof

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Hot-swappable battery for whole-day work

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Integrated smart card reader (Optional)

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Operate in temperatures ranging from -20°C to 60°C (AC mode)

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BT, WLAN

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IP65 waterproof and dustproof

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

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## Custom Configuration



Memory



Storage



WWAN



Smart Card Reader  
(M140TG)



HF RFID Reader



GNSS

## Application



### **Car Repair Service**

#### **ERGONOMIC AND FUNCTIONAL WORKSTATION**

Use the kickstand-handle to position the M140TG series under the hood and check visualize graphs, charts and diagrams to improve repair maintenance process and provide high quality service to car owners.

## Custom Configuration

Up to  
**256 GB**

Storage

Up to  
**8 GB**

Memory



Rear  
Camera



WWAN

## Application



## See The Data With Less Scrolling

USE IT AT EASE  
ANYWHERE AND EVERY  
TIME

Winmate's D140 rugged tablet seamlessly integrates into the workflow, ensuring a secure and efficient user experience.

# 14" Windows Rugged Tablet PC D140



“ **BEYOND BOUNDARIES,  
ELEVATE INDUSTRIAL INNOVATION.** ”

- Intel® Core™ i5-1235U Alder Lake processor
- 14-inch tablet, 1920 x 1080 wide viewing angle LED Panel
- Projected Capacitive Touch screen with Stylus

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Magnesium Alloy Housing with All-Around Elastomeric Rubber

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Thermal Design with Fan cooling system

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Built in stylus holder for left/right hand usage

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**WINMATE**

# **Winmate Smart Vehicle Inspection**

**AI-DRIVEN DIAGNOSTICS AND  
RUGGED COMPUTING FOR MODERN  
AUTOMOTIVE TESTING WORKFLOWS**

**WINMATE**



# M156AD-M1

Windows Rugged Tablet PC



**CE FC**

**M140 Series**  
**Windows Rugged Tablet**

## Contact Us

### Winmate Inc. (Headquarter)

No. 18, Zhongxing S. St.,  
Sanzhong Dist.,  
New Taipei City 241017, Taiwan  
Tel +886-2-8511-0288  
Website [www.winmate.com](http://www.winmate.com)

### Winmate USA (Main Office)

2640 Mathews Street,  
Smyrna, GA 30080  
Tel +1 678-653-8800  
Website [www.winmate-rugged.com](http://www.winmate-rugged.com)

### Winmate TTX

150 Werlich Drive, Units 5&6  
Cambridge, Ontario, N1T 1N6  
Tel +1-519-621-1881  
Website [www.ttx.ca/](http://www.ttx.ca/)

### Winmate Morocco

N 59 Rce Moulay Abdelaziz Avenue Moulay  
Abdelaziz N 4 Kenitra, Morocco  
Tel +212613131944  
Website [www.winmate.com](http://www.winmate.com)

### Winmate Switzerland Primelco Visual Data AG (PVD)

Neuhofstrasse 25 - CH-6340 Baar  
Tel +41 (0)41 767 01 70  
Website <https://shop.primelco.ch/>

### Winmate Switzerland Primelco System Device AG (PSD)

Neuhofstrasse 25 - CH-6340 Baar  
Tel +41 (0)41 766 27 27  
Website <https://portal.primelco.ch/>

### Winmate Germany

Bgm.-Gradl-Strasse 1 D-85232  
Bergkirchen-Feldgeding Deutschland  
Tel +49 (0)8131 33204-0  
Fax +49 (0)8131 33204-150  
Website [www.tl-electronic.de/](http://www.tl-electronic.de/)

### 北京京融电自动化科技有限公司 苏州办事处

215100 江苏省苏州市工业园区唯新路69号  
一能科技园3号楼206室  
Tel +86-512-6826-6696/6829-6696  
Website [www.winmate.com.cn](http://www.winmate.com.cn)

### Winmate JP office / HPC Systems Inc.

LOOP-X 8F,3-9-15 Kaigan,  
Minato-ku, Tokyo 108-0022, Japan  
Tel +81-3-5446-5535  
FAX +81-3-5446-5550  
Website [www.hpc.co.jp](http://www.hpc.co.jp)

### Winmate Singapore Anewtech Systems Pte Ltd

62 Ubi Road 1, #04-14 Oxley Bizhub 2,  
Singapore 408734  
Tel +65 6292 0801  
Website [www.winmate.com](http://www.winmate.com)

### Winmate India

3rd floor, S NO 131, Ram Indu Park Rd, Baner,  
Pune, Maharashtra 411045,India  
Tel +91-9850323296  
Website [www.winmate.com](http://www.winmate.com)

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