

AUTOMOTIVE INDUSTRY

**Diagnostics/
Engineering/
Manufacturing**

A photograph of a young man with curly brown hair, wearing a black t-shirt and grey work overalls, sitting in a workshop. He is looking down at a laptop computer he is using. In the background, another person is working on a car, and various mechanical parts and tools are visible, creating a busy industrial atmosphere.

COMPACT TEST TOOL FOR
QUALITY CONTROL AND TESTING

Q1 - 2024

About Winmate

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

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

The Winmate Difference

Innovation and Ruggedness

With innovation and ruggedness, our products are designed to meet the requirements of vertical markets' environmental standards.

Engineering Intelligence

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

Quality Commitment

Quality assurance and entire engineering processes are conducted in-house. It is why we invested significantly in our state-of-the-art testing facility with additional global support.

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

Efficiency

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

Reliability

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

Customized Solutions

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

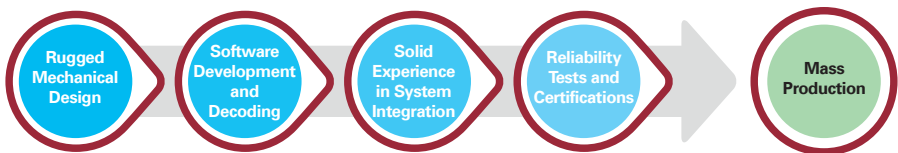
From product design to accessories, our engineering team designs and support the system integration process.

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

Technical Know-How

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

The latest technologies we deploy for our rugged products:



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

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 support the latest Windows® and Android™ operating system and come with display sizes ranging from 8.4-inch up to 13.3-inches. These tablets are ready to go in the most challenging conditions, featuring waterproof, dustproof, vibration, and drop resistant enclosures. A brilliant sunlight-readable screen offers the best depiction of every diagram and spreadsheet, no matter the lighting conditions.

Designed for workshops, car repair centers, and inspection stations, all of the Winmate's rugged tablets are reliable and durable, feature IP-rated water and dust protection, and comply with MIL-STD-810G/ H standard for shock, vibration, and drop. You can choose the custom accessories based on your application requirements - carry-bags, vehicle cradles, and vehicle docking stations – all for workers' convenience.

Performance, durability, and connectivity are making Winmate's rugged tablets the definitive solution for the automotive industry. Mobile devices bring a new level of convenience, productivity, and operational efficiency to the car production floor, vehicle diagnostics, and repair workshops.



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

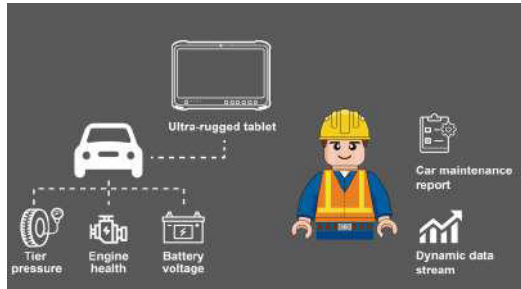
Main Challenges

- 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

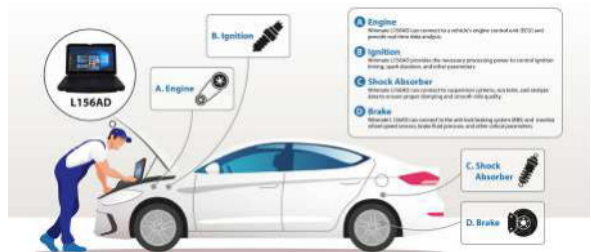
Main Challenges

- 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

- L140TG-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

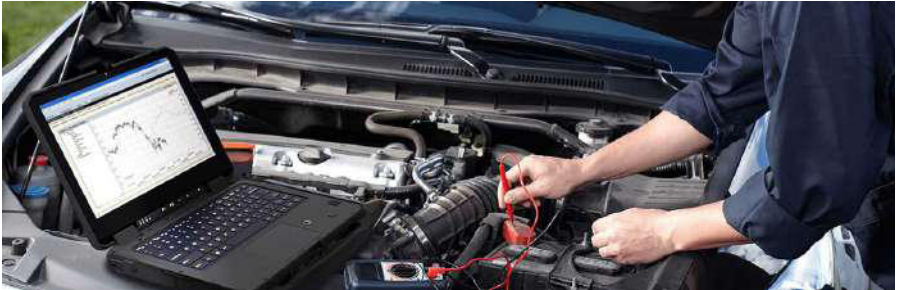
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**RUGGED LAPTOP
AND TABLET
FOR INNOVATIVE
AUTOMOTIVE
WORKSHOP.**
”



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

Application Story (Rugged Laptop)

Reduce Cost and Streamlines Automotive Service Bay



Background

The continuous failure of the customer-grade laptops for vehicle maintenance pushes technology dealers to search for more advanced and reliable solutions. The dealer technology management recognized that using consumer-grade devices added expenses for dealerships and manufacturers to purchase replacement devices regularly and lower service technician productivity.

Additionally, due to an oversaturation of vehicle providers, customers prioritize brand behavior and service over products. This compels luxury automakers and their dealer tech entities to enhance aftersales services. One approach is to offer improved mobile computing solutions to keep service technicians connected, capture real-time vehicle maintenance data, and meet service expectations proactively.

“ CHOOSE TOOLS AND DEVICES CAREFULLY FOR RELIABLE AND EFFICIENT MAINTENANCE ACROSS OUR DEALERSHIP NETWORK ”

Core Products

- Winmate L140TG-3: 13.3" Rugged Laptop

Main Challenges

- Superior mobile connectivity
- The rigorous environment of the factory floor
- Brand and products performance excellence

Why Winmate

- Enhanced compatibility with a vehicle system
- Quality Excellence in the automotive industry



Application: Vehicle Diagnostics

15.6" Windows Rugged Laptop L156AD Series



“ BOOST PERFORMANCE WITH AI. ”

- 13th Gen. Intel® Processor Family – Raptor Lake Processor
- Optional discrete NVIDIA Graphic Card
- Windows 10 IoT Enterprise

15.6" FHD and 4K Panel resolution options to fulfill diverse applications

Anti-glare technology for sunlight readability

Projective capacitive touch supporting switchable rain/glove/ stylus modes

Magnesium alloy enclosure with double injection for drop protection

IP65 waterproof and dustproof

WLAN & optional WWAN 4G/5G (Optional)

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

Custom Configuration



Memory



Storage
2nd SSD



WWAN



Fingerprint
Scanner



HF RFID
Reader



Brightness



Ultra HD
HDMI 4K
Output



NVIDIA
Graphic Card

Application



Crank up the Resolution for an Even Better Visual Experience

PLANNING AND PRODUCTION DEMAND

Winmate 15.6" rugged laptop is upgraded with the latest 13th Gen Intel® Core™ Processors, growing 35% in performance from the previous generations, reaching the highest clock rate of 5.0GHz – achieving premium multitasking performance.

13.3"/14" Windows Rugged Laptop L140TG-3/ L140TG-4

Custom Configuration



Memory



Storage



Rear Camera



Smart Card Reader



Fingerprint Scanner



HF RFID Reader



Expansion Module



WWAN



“ **EMPOWER THE PUBLIC SECTOR WITH POWERFUL, RUGGED LAPTOPS.** ”

- 13.3"/ 14", 1920 x 1080, P-CAP touchscreen
- 11th Gen. Intel® Processor Family – Tiger Lake Processor
- Fanless cooling system
- Full-scale QWERTY layout keyboard
- Windows 10 IoT Enterprise

Anti-glare technology for sunlight readability

Flip design for quick switching between laptop and tablet modes

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

Expansion slot supporting optional 2nd removable SSD and smart card reader

IP65 rating and MIL-STD-810H suitable for public safety, vehicle diagnostic and military application

Application



Car Repair Workshop Solution

ARDUOUS WORK OF CAR REPAIR WORKSHOP

Winmate's L140TG rugged laptop makes it possible for staff member officers to turn their workbenches into mobile workplaces.

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



Custom Configuration



Memory



Storage
2nd SSD



Rear Camera



Fingerprint
Scanner



HF RFID
Reader



WWAN



Expansion
Module

Application



“ INTELLIGENT WORKLOAD OPTIMIZATION. ”

- 13.3 / 14" , 1920 x 1080 LED panel with direct optical bonding
- 12th Gen. Intel® Processor Family – Alder Lake Processor
- Windows 10 IoT Enterprise

Anti-glare technology for sunlight readability

Projective capacitive touch supporting switchable rain/
glove/ stylus modes

Flip design for quick switching between rugged laptop
and rugged tablet 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



Built On Advanced Hybrid Architecture

SUPPORTING FUTURE BEST-IN-CLASS PERIPHERALS

Winmate 14" rugged laptop with 12th Gen Intel® Core™ Processors provide support for DDR5 memory, as well as security and manageability features workload optimization, enhanced graphics and enhanced peripheral, connectivity, and fast memory access capabilities.

5" Android Rugged Handheld Computer E500RM9/ E500QK



WWAN



NFC RFID
Reader



Barcode
Reader
(E500RM9)



Docking
Connector



Battery
Hotswap
(E500RM9)



Fingerprint
Reader
(E500RM9)



Smart Card
Reader
(E500RM9)



FC CE

“

**ALL-IN-ONE.
FOR DATA COLLECTION.**

”

- Android 11.0, ARM A73 x 4 (2.0 GHz) + A53 x 4 (E500RM9)
- Android 9.0, Qualcomm® Snapdragon™ 660 (E500QK)
- 5", 1280 x 720 Panel with direct optical bonding

8 MP webcam, 13 MP rear camera with autofocus

Ambient light sensor, E-compass, Gyro & Acceleration Sensors

WLAN, BT, GPS, WWAN (Optional)

Micro USB/Type C (OTG), Docking connector

NFC (Read / Write, Peer-to-Peer mode) (Optional)

IP65 and IP67 waterproof and dustproof

Storage temperature -30°C to 70°C

Custom Configuration

Application



Automotive Factory Inventory Control

SPEED UP REALTIME DATA EXCHANGE AND IDENTIFICATION

Sealed to IP67, the E500QK rugged mobile computer is built to withstand harsh environments, protected against water and dust. Compliant with MIL-STD-810G, it can operate in extreme temperatures ranging from -30°C to 70°C and endure shocks and vibrations.

7" Android Rugged Tablet M700DQ8/ M700DM9



“ **COMPACT. DURABLE.
VIBRATION RESISTANT.** ”

- 7", 1280 x 720, P-CAP touchscreen
- Android 9.0, Qualcomm® Snapdragon™ 660 (Octa-Core 2.2 GHz) (M700DQ8)
- Android 11.0, ARM A73 x 4 (2.0 GHz) + A53 x 4 (2.0 GHz) (M700DM9)

Ambient light sensor, E-compass, Gyro & Acceleration Sensors

8 MP webcam, 13 MP rear camera with autofocus

USB Type C (OTG), docking connector

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

NFC (Read/ Write, Peer-to-Peer mode) (Optional)

IP65 waterproof and dustproof

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

Custom Configuration



Barcode
Reader



NFC RFID
Reader



WWAN

Application



Factory Inventory Management

**STREAMLINE ORDERING
AND INVENTORY
MANAGEMENT, AND
IMPROVE OPERATIONAL
EFFICIENCIES.**

Winmate M700DQ8 with default NFC allows tracking incoming and outgoing shipments while storing and monitoring inventory information in the warehouse in real-time.

10.1" Windows Rugged Tablet S101TG

Custom Configuration

Up to
32 GB

Memory

Up to
2 TB

Storage



Barcode
Reader



WWAN



Battery
Hotswap

**USB/
UART**

Expansion
Port



FCC E

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

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

4 GB DDR4, 128 GB SSD, micro SDXC card slot

Light sensor/ g-sensor/ Gyro

2MP Webcam , 8MP Auto-focus rear camera

Anti-glare touch treatment

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

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

Support hand/ gloves and rain mode

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

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



“ 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

2MP Webcam , 8MP AutoFocus Rear Camera

IP65 waterproof and dustproof

MIL-STD-810H shock, vibration and drop

Optional 1D/2D Barcode Reader

Sunlight readability technology

IP65 waterproof and dustproof

Ethernet thru Giga LAN (RJ45)

Custom Configuration



Memory



Storage



WWAN



Micro HDMI
Port



Barcode
Reader



USB/
UART
Expansion
Port



Battery
Hotswap

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

Custom Configuration



RFID
Reader



Barcode Reader



WWAN



Battery Hotswap



FCC CE

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.

“**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)

4 GB RAM + 32 GB eMMC

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

Anti-glare touch treatment

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

Integrated 1D/2D barcode reader (Optional)

Integrated NFC module (Optional)

SOTI MobiControl compliance

10.1" Windows Rugged Tablet PC M101AD



“ RUGGED, CUSTOM, AND READY FOR FIELD SERVICE ”

- 10.1", 1920x1200 IPS LED Panel with PCAP touch
- Intel® Core i5-1235U Alder Lake processor
- Windows 10 IoT Enterprise

Sunlight readable with antiglare solution

IP65 waterproof and dustproof, MILSTD-810H shock, vibration and drop resistance

Hot swappable battery design

USB Type-C port support power delivery and ALT mode

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

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.

10.1" Windows Rugged Tablet M101TG



Custom Configuration

Up to
32 GB

Memory

Up to
2 TB

Storage



Barcode
Reader



WWAN



HF 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.



FCC CE

“

**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

IP65 waterproof

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

Sunlight readable with antiglare solution

Hot-swappable battery design

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

10.1" Windows Rugged Tablet PC M101EKB



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

- 8", 1280x800 wide viewing angle with P-CAP touch
- Intel® Elkhart Lake Celeron® N6211 processor
- Windows 10 IoT Enterprise

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

Low power consumption with fanless design

Removable battery with hot-swap function for all day productivity

Sunlight readable with anti-glare solution

USB Type-C port supports power delivery 20V In

Integrated 4G/5G Wireless WWAN (Optional)

ISO/IEC 99953 QWERTY Keypad

Custom Configuration

 Up to 8 GB	 Up to 512 GB	
Memory	Storage	Barcode Reader
 WWAN	 RFID	 USB/ RS-232
WWAN	RFID Reader	Expansion Port
Smart Card Reader		

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.

Custom Configuration

Up to
32 GB

Memory

Up to
2 TB

Storage



WWAN



GigaLAN
Port



Barcode
Reader



HF RFID
Reader

11.6" Windows Rugged Tablet PC M116AD

NEW
PRODUCT



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.

“ RELIABLE TECH FOR WATER UTILITY MAINTENANCE. ”

- 11.6" 1920 x 1080 LCD Panel with PCAP touch
- Intel® Core™ i5-1135G7 (2.40GHz, up to 4.20GHz)
- Windows 10 IoT Enterprise

IP65 waterproof and dustproof

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

2MP Webcam , 8MP Auto-Focus Rear Camera

Optional GigaLAN port design

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

Built-in Mic with Noise Cancellation

Hot-swappable Main Battery

11.6" Windows Rugged Tablet M116TG



“ 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

IP65 waterproof

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

Sunlight readable with antiglare solution

Hotswappable battery design

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

Custom Configuration

Up to
32 GB

Memory

Up to
2 TB

Storage



WWAN



GigaLAN
Port



Barcode
Reader



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.

11.6" Windows Rugged Tablet M116P/ M116PT

Custom Configuration



Memory



Storage



WWAN



GigaLAN
Port



Barcode
Reader



HF RFID
Reader



“

**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

4 GB LPDDR4, 128 GB SSD

Light sensor, G-sensor, Gyro

2 MP webcam, 8 MP rear camera with autofocus

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

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

Integrated Smart Card Reader (M116PT)

IP65 waterproof and dustproof

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

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



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

- 13.3", 1920 x 1080, IPS wide viewing angle LED panel
- Intel® Core™ i51135G7 Tiger Lake Processor
- Windows 10 IoT Enterprise

Removeable kickstand usable as carrying handle

Magnesium alloy housing with allaround elastomeric rubber

Fanless cooling system

TPM 2.0, Kensington lock

Support BT, WLAN

IP65 waterproof and dustproof

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

Custom Configuration



Memory



Storage



Rear
Camera



GNSS



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.

Custom Configuration

Up to
16 GB

Memory

Up to
1 TB

Storage

Up to
1 TB

2nd
Storage



GPS/
GLONASS



WWAN



Rear Camera
(M133WK)

13.3" Windows Ultra-Rugged Tablet M133WK/ M133WKU



Application



Car Repair Service

ERGONOMIC AND FUNCTIONAL WORKSTATION

Use the kickstand-handle to position the M133WK series ultra-rugged tablet under the hood and check user manuals, visualize graphs, charts and diagrams to improve repair maintenance process and provide high quality service to car owners.

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

- 13.3", 1920 x 1080, P-CAP touchscreen
- Intel® Core™ i5-8265U 1.60 GHz, up to 3.90 GHz
- Windows 11 IoT Enterprise (M133WK) (Optional)
- Ubuntu 18.04 (M133WKU)

4 GB DDR4, 128 GB M.2 SSD

Light sensor, G-sensor, Gyro, E-compass

Removeable kickstand usable as carrying handle

Magnesium alloy housing with allaround elastomeric rubber

TPM 2.0, Kensington lock

BT, WLAN

IP65 waterproof and dustproof

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

14" Windows Rugged Tablet M140TG/TGT



FCCE

“ **ALWAYS ON INDUSTRIAL
MOBILE PC.** ”

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

Optical bonding and anti-glare technology for sunlight readability

IP65 waterproof and dustproof

Hot-swappable battery for whole-day work

Integrated smart card reader (Optional)

Operate in temperatures ranging from -20°C to 60°C (AC mode) or -10°C to 50°C (Battery mode)

Custom Configuration

Up to
32 GB

Memory

Up to
2 TB

Storage



WWAN



Smart Card
Reader
(M140TG)



HF RFID
Reader



GNSS

Application



See The Data With Less Scrolling

**USE IT AT EASE
ANYWHERE AND EVERY
TIME**

The M140TG 14" tablet comes with an optional kickstand/hard handle, and mounting choices make it very easy to carry. Rest assured that the device can withstand the impact, shock, vibration, liquid spills, and dust.

8.4" Windows Ultra-Rugged Tablet R08IP8M-RTU1GP

Custom Configuration



Memory



Storage



GPS/
GLONASS



Barcode
Reader



WWAN



Camera



Protection
Glass



“ **A POWER-EFFICIENT TERMINAL
WITH HIGH MOBILITY.** ”

- 8.4", 800 x 600 resistive touchscreen
- Intel® Pentium® N4200 1.1 GHz (up to 2.5 GHz)
- Windows 10 IoT Enterprise (Optional),
Linux Ubuntu 20.04 (Optional)

Alu-Mg alloy housing with protective rubber

Trusted platform module (TPM) V2.0

Built-in wireless, BT, GPS

Optional 4G LTE

Adjustable kickstand handle (Optional)

Auto Repair Workshop

WIRELESSLY RETRIEVE DIAGNOSTIC DATA

Auto repair workshop workers use durable, portable tablets with customized connectors to access vehicle systems and diagnostic data easily.



8.4" Windows Ultra-Rugged Tablet R08IWK8M-RTU1GP



FCCE

“ **PORTABLE AND POWERFUL SOLUTION.** ”

- 8.4", 800 x 600 Resolution touchscreen
- Intel® Core™ i5-8265U (6M Cache, up to 3.9 GHz)
- Windows 10 IoT Enterprise (Optional), Linux Ubuntu 20.04 (Optional)

Plastic front cover and Alu-Mg Alloy rear cover with Protective Rubber

Trusted platform module (TPM) V2.0

Built-in Wireless / BT / GPS

Optional 4G LTE

Adjustable Kickstand that is convertible to a handle (Optional)

Custom Configuration

Up to
32 GB

Memory

Up to
4 TB

Storage



GPS/
GLONASS



Barcode
Reader



WWAN



Camera



Protection
Glass

Application



Car Production Testing

**SIMPLIFIES
PRODUCTION PROCESS**

During the car assembly process, operators attach the ultra-rugged tablet to the vehicle to conduct on-board tests with a unique steering wheel mount.

10.4" Windows Ultra-Rugged Tablet R10IWK8M-RTT2GP

Custom Configuration



Memory



Storage



GPS/
GLONASS



Barcode
Reader



WWAN



Camera



Protection
Glass



FCC E

**“STRONG AND STURDY FOR THE
AUTOMOTIVE INDUSTRY.”**

- 10.4", 1024 x 768, resistive touchscreen
- Intel® Core™ i5-8265U 1.6 GHz (up to 3.9 GHz)
- Windows 10 IoT Enterprise (Optional),
Linux Ubuntu 20.04 (Optional)

Plastic front cover and Alu-Mg Alloy rear cover with Protective Rubber

Trusted platform module (TPM) V2.0

Built-in Wireless / BT / GPS

Optional 4G LTE mobile computers

Adjustable Kickstand that is convertible to a handle (Optional)

Car Diagnostic Equipment

**POWERFUL,
ERGONOMIC,
AND RUGGED**

The device can serve as an auto repair computer that can check-in customers and creates service documentation, and to run parts management software programs.





WINMATE



L156 Series

**4K / FHD CONVERTIBLE
RUGGED LAPTOP**



Experience the L156 Series Rugged Tablet: 13th Gen Intel® Raptor Lake Processor, 15.6" FHD/4K P-CAP touch display, optional NVIDIA Graphic card, dual hot-swappable battery, anti-glare sunlight readability, IP65 waterproofing, and magnesium alloy drop protection.

Amplify your productivity with NVIDIA T1000 and A2000 Graphic Cards compatibility.