

Automotive Industry

Diagnostics | Engineering | Manufacturing

RUGGED
MOBILE
SOLUTIONS
TAKING
EFFICIENCY
AND
PRODUCTIVITY
TO A NEW
LEVEL



About Winmate

Founded in 1996, Winmate Inc. is a pioneer in rugged computing technology. For over two decades, Winmate has provided business leaders worldwide with reliable, rugged solutions made for the most challenging industrial conditions. 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 industrial display and panel PC, HMI, embedded systems, and IoT gateways to rugged tablets and handheld devices, Winmate caters to industries ranging from transportation and logistics to marine and military, railway, oil and gas, and also provides customization services to create a unique solution for specific customer requirements.

The Winmate Difference

Innovation and Ruggedness

Blending 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. This 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. From design to testing, the whole development process is conducted in-house to achieve the market advantage in speed and quality.

Reliability

Reliability, service and support are part of our foundation. Every product undergoes the scrutiny of 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.

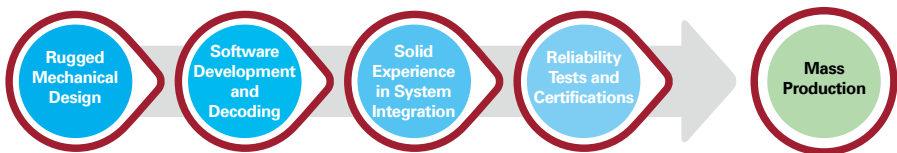
From product design to accessories, our engineering team designs and supports the system integration process.

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

Technical Know-How

We understand that, for enterprises operating in rugged or potentially hazardous environments, the access to the cutting-edge solutions purpose-built for their applications is imperative. As a result, Winmate locates its resources from project research and design, software development and customization, product verification and validation, to testing all in-house to maximize freedom 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. Featuring waterproof, dustproof, vibration, and drop resistant enclosures, these tablets are ready to go in the most challenging conditions. 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 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 worker's 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

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 a new level of convenience to car mechanics. 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 the production, and result in higher productivity and cost reductions achieved by using real-time data.

Core Products

- 13.3" Ultra-Rugged Tablet M133WK Series

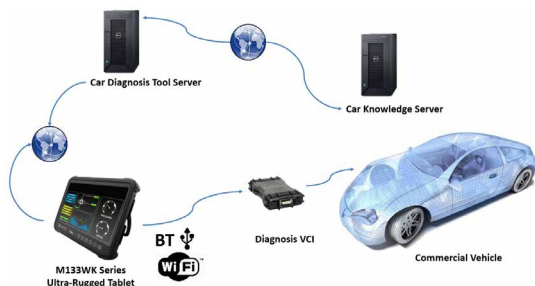
Main Challenges

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



Application: Vehicle Diagnostics

Application Story

Car Repair Workshop



Background

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

Core products

- 13.3" ultra-rugged tablet

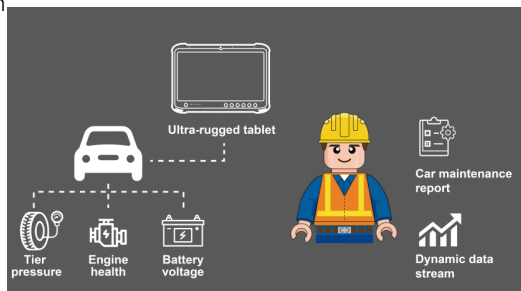
Main Challenges

- All-in-one device
- Ability to check inventory with barcode scanner
- 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

4.3" Android Rugged Handheld Computer E430RQ8 Series



**“ RUGGED EFFICIENCY
ON-THE-GO. ”**

- 4.3", 480 x 800, PCAP touchscreen
- Qualcomm® Snapdragon™ 660 (Octa-Core 2.2 GHz)
- Android 9.0

3 GB RAM, 32 GB eMMC

8 MP webcam, 13 MP rear camera with autofocus

Ambient light sensor, e-compass, gyro & acceleration sensors, automatic screen rotation

WLAN 802.11 a/b/g/n/ac, BT

USB 3.0 Type C (OTG), docking connector

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

260g lightweight portability

IP65 waterproof and dustproof

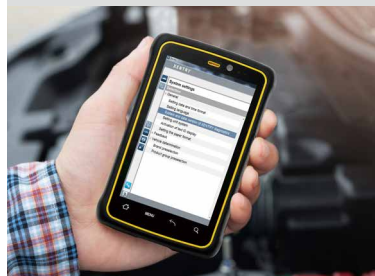
MIL-STD-810G shock, vibration and drop resistance

Custom configuration



Barcode
Reader

Application



Car Testing

**“COMPACT TEST TOOL
FOR QUALITY CONTROL
AND TESTING”**

The automotive factory product testing operator uses a 4.3-inch compact, rugged handheld E430RQ8 to remote control the test software and goes through all test steps. The total solution improved Quality Control (QC) at the early stages of car production.

5" Rugged Android Handheld Computer E500RM8 Series

Custom configuration



Barcode
Reader



Fingerprint
Reader



Smart Card
Reader



Battery
Hotswap



“

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

”

- 5", 1280 x 720, PCAP touchscreen
- ARM A53 (Octa-Core 1.3 GHz)
- Android 7.0

2 GB RAM, 16 GB eMMC

2 MP front camera, 8 MP rear camera with autofocus

Default 4G/LTE, GPS/AGPS

WLAN 802.11 a/b/g/n, BT

Ambient light sensor, e-compass, gyro & acceleration sensors, automatic screen rotation

Micro USB, docking connector

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

315g lightweight portability

IP65 waterproof and dustproof

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



Automotive Factory Inventory Control

“SPEED UP REAL TIME
DATA EXCHANGE AND
IDENTIFICATION”

The E500RM8 with a built-in 1D/2D barcode reader is suitable for data collection inventory control in the factory. Collect information about incoming and outgoing materials and get real-time stock updates.

7" Rugged Android Tablet M700DQ8 Series



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

- 7", 1280 x 720, PCAP touchscreen
- Qualcomm® Snapdragon™ 660, Octa-core up to 2.2 GHz
- Android 9.0

3 GB RAM, 32 GB eMMC

Support Hand/ Gloves and Rain mode

Ambient light sensor, e-compass, gyro & acceleration sensors, automatic screen rotation

8 MP webcam, 13 MP rear camera with autofocus

USB 3.0 Type C (OTG), docking connector

WLAN 802.11 a/b/g/n/ac, BT

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

550g lightweight portability

IP65 waterproof and dustproof

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

Custom configuration



Barcode
Reader



Battery
Hotswap



4G LTE



GPS/AGPS

Application



Forklift Automation

“FROM FIXED MOUNTING TO PORTABLE SOLUTION”

The M700DQ8 rugged tablet with the vehicle docking delivers a portable and robust solution for warehouse management and route optimization across one of Europe's largest automotive supplier facilities.

Custom configuration



4G LTE

Barcode
Reader



Factory Enterprise Mobility

**"ALL-IN-ONE MOBILE
SOLUTION FOR FIELD
WORKERS"**

Winmate M900Q8 is the ultimate all-in-one mobility solution for workers in the field.

Wireless communications, built-in barcode scanner, and NFC reader allows for real-time communications and effortless data collection across the automotive factory facilities and warehouses.

8" Rugged Android Tablet **M900Q8/QT/QT-H** **Series**



**“ NEW ANDROID-BASED
FORM FACTOR**

”

- 8", 1280 x 800, PCAP touchscreen
- Qualcomm® Snapdragon™ 660 (Octa-Core 2.2 GHz)
- Android 9.0

3 GB RAM, 32 GB eMMC

Ambient light sensor, e-compass, gyro & acceleration sensors, automatic screen rotation

8 MP webcam, 13 MP rear camera with autofocus

WLAN 802.11 a/b/g/n/ac, BT, GPS/AGPS

D-sub for vehicle gateway connection, USB 3.0 Type C (OTG)

Default NFC (Read /Write, Peer-to-Peer mode), GPS/AGPS

Battery hot swap (Default M900QT-H)

Built-in smart card reader (Default M900QT)

IP65 waterproof and dustproof

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

8" Rugged Windows Tablet M900P/ PT Series



“ PORTABLE POWERFUL SOLUTION. ”

- 8", 1280 x 800, PCAP touchscreen
- Intel® Pentium® N4200 (2M Cache, up to 2.5 GHz)
- Windows 10 IoT Enterprise

4 GB LPDDR4, 64 GB SSD

Light sensor, g-sensor, gyro, e-compass

2 MP webcam, 8 MP rear camera with autofocus

WLAN 802.11 a/b/g/n/ac, BT, GPS, GLONASS

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

D-sub for vehicle gateway connection

Built-in smart card reader (Default M900PT)

IP65 waterproof and dustproof

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

Custom configuration



Memory



Storage



HF RFID
Reader Reader



Barcode Reader



4G LTE

Application



Connected Truck

“CONNECTIVITY FOR
VEHICLES ON THE ROAD”

Installed on a driver's dashboard with vehicle cradle, the 8" rugged tablet M900P and custom designed vehicle gateway VG-100 now connect in-vehicle systems and allow status monitoring of a semi-truck circling between the automobile production plants in Europe.

Custom configuration



Memory



4G LTE



Barcode Reader



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.

8.4" Ultra-Rugged Windows Tablet R08IWK8M-RTU1GP



“ PORTABLE POWERFUL SOLUTION. ”

- 8.4" anti-scratch resistive touchscreen
- Intel® Core™ i5-8265U (6M Cache, up to 3.9 GHz)
- Windows 10 IoT Enterprise (Optional), Linux Ubuntu 18.04 (Optional)

4 GB SO-DIMM, DDR4 2133 MHz, 64 GB M.2 2242 SSD

Expansion M.2 2242 B-key Slot (for SSD), M.2 2232 E-Key Slot (for half-size Wi-Fi module)

TPM 2.0

USB 3.0 (Type A), RS-232/422/485, docking connector

RJ45 for Ethernet

Magnesium Alloy & ABS+PC

IP54 waterproof and dustproof

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

8.4" Ultra-Rugged Windows Tablet R08IP8M-RTU1GP



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

- 8.4", anti-scratch resistive touchscreen
- Intel® Pentium® N4200 (2M Cache, up to 2.5 GHz)
- Windows 10 IoT Enterprise (Optional),
Linux Ubuntu 18.04 (Optional)

4 GB SO-DIMM, DDR3L 1600 MHz, 64 GB M.2 2242 SSD

Expansion M.2 2242 B-key Slot (for SSD),
M.2 2232 E-Key Slot (for half-size Wi-Fi module)

TPM 2.0

USB 3.0 (Type A), RS-232/422/485, docking connector

RJ45 for Ethernet

Magnesium Alloy & ABS+PC

IP54 waterproof and dustproof

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

Custom configuration



4G

Memory

4G LTE



Barcode
Reader



Camera



Protection
Glass

Application



Auto Repair Workshop

**“WIRELESSLY RETRIEVE
DIAGNOSTIC DATA”**

Durable and portable tablet computers with a customized CANBus connector enable auto repair workshop workers to connect easily to a vehicle system to receive diagnostics data.

Custom configuration



Memory



Storage



Barcode Reader



4G LTE



HF RFID Reader



Micro HDMI Port



High Capacity Battery 16hr

Application



Car Repair Center Mobility Solution

"LONG BATTERY LIFE AND VARIOUS DATA CAPTURE OPTIONS"

Easing into mobility services is a way to stand out from the competition. Car mechanics use the M101S rugged tablet to collect information and receive technical support from the management office in real-time.

10.1" Windows Rugged Tablet M101S Series



“ ROBUST TABLET TO WITHSTAND INDUSTRIAL USE. ”

- 10.1", 1920 x 1200, PCAP touchscreen
- Intel® Core™ i5-7200U Kaby Lake 2.5 GHz, up to 3.1GHz
- Intel® Core™ i5-7300U Kaby Lake 2.6 GHz, up to 3.5 GHz
- Windows 10 IoT Enterprise (Optional), Linux Ubuntu 18.04 (Optional)

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

Light sensor, g-sensor, gyro, e-compass

2 MP webcam , 8 MP rear camera with autofocus

Anti-glare touch treatment

USB 3.0 Type-A, USB 3.0 Type-C, docking connector

WLAN 802.11 a/b/g/n/ac, BT, GPS, GLONASS

IP65 waterproof and dustproof

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

10.1" Windows Rugged Tablet M101P Series



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

- 10.1", 1920 x 1200, PCAP touchscreen
- Intel® Pentium® N4200 (2M Cache, up to 2.5 GHz)
- Windows 10 IoT Enterprise (Optional),
Linux Ubuntu 18.04 (Optional)

4 GB LPDDR4, 128 GB SSD, micro SDXC card slot

Light sensor, g-sensor, gyro, e-compass

2 MP webcam , 8 MP rear camera with autofocus

Anti-glare touch treatment

USB 3.0 Type-A, USB 3.0 Type-C, docking connector

WLAN 802.11 a/b/g/n/ac, BT, GPS, GLONASS

IP65 waterproof and dustproof

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

Custom configuration



Memory



Storage



Barcode
Reader



4G LTE



HF RFID
Reader



Micro HDMI
Port



High
Capacity
Battery 16hr

Application



Quality Inspection

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

The M101P rugged tablet computers with the quality inspection software app installed are serving at the factory's quality inspection department. Maintenance of department, premises and equipment, and learning now is easier than ever with the M101P.

Custom configuration



Barcode
Reader



Battery
Hotswap

Application



R&D and Engineering

“TOUGH ENOUGH TO
WITHSTAND REGULAR
DROPS”

Light and rugged Android-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" Android Rugged Tablet M101M8 Series



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

- 10.1", 1280 x 800 PCAP touchscreen
- ARM A53 (Octa-Core 1.3 GHz)
- Android 7.0

2 GB, 16 GB eMMC

2 MP front camera, 8 MP rear camera with autofocus

Default 4G/LTE, GPS/AGPS, BT, WLAN 802.11 a/b/g/n

Ambient light sensor, e-compass, gyro & acceleration
sensors, automatic screen rotation

Micro USB, docking connector

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

IP65 waterproof and dustproof

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

10.4" Ultra-Rugged Windows Tablet R10IWK8M-RTT2GP



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

- 10.4", anti-scratch resistive touchscreen
- Intel® Core™ i5-8265U (6M Cache, up to 3.9 GHz)
- Windows 10 IoT Enterprise (Optional),
Linux Ubuntu 18.04 (Optional)

4 GB SO-DIMM, DDR4 2133 MHz, 64 GB M.2 2242 SSD

Expansion M.2 2242 B-key Slot (for SSD),
M.2 2232 E-Key Slot (for half-size Wi-Fi module)

TPM 2.0

USB 3.0 (Type A), RS-232/422/485, docking connector

RJ45 for Ethernet

Magnesium Alloy & ABS+PC

IP54 waterproof and dustproof

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

Custom configuration



Memory



4G LTE



Barcode
Reader

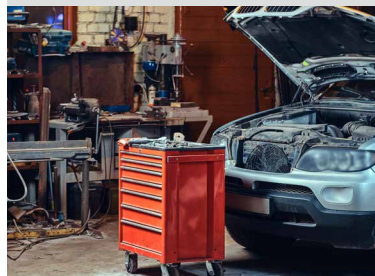


Webcam



Protection
Glass

Application



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.

Custom configuration



Memory



Barcode
Reader



Protection
Glass

4G

4G LTE



Webcam

Application



Tire Fitting Service

“FOR EXTREME WORK
CONDITIONS”

Meets MIL-STD-810G quality standards for vibration, shock, and extremes of temperature to ensure a durable mobile computing experience in an industrial environment.

10.4" Ultra-Rugged Windows Tablet R10IP8M-RTT2GP



FC CE

“A POWER-EFFICIENT TERMINAL
WITH HIGH MOBILITY.”

- 10.4", anti-scratch resistive touchscreen
- Intel® Pentium® N4200 (2M Cache, up to 2.5 GHz)
- Windows 10 IoT Enterprise (Optional),
Linux Ubuntu 18.04 (Optional)

4 GB SODIMM DDR3L-1866, 64 GB M.2 SSD

Expansion M.2 2242 B-key Slot (for SSD),
M.2 2232 E-Key Slot (for half-size Wi-Fi module)

TPM 2.0

Two USB 3.0, RS232/422/485, docking connector

RJ45 for Ethernet

Magnesium Alloy & ABS+PC

IP54 waterproof and dustproof

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

11.6" Rugged Windows Tablet M116P Series



BRILLIANT SUNLIGHT READABLE SCREEN.

- 11.6", 1920 x 1200, PCAP touchscreen
- Intel® Pentium® N4200 1.1 GHz, up to 2.5 GHz
- Windows 10 IoT Enterprise (Optional),
Linux Ubuntu 18.04 (Optional)

4 GB LPDDR4, 128 GB SSD

Light sensor, g-sensor, gyro, e-compass

2 MP webcam, 8 MP rear camera with autofocus

Anti-glare touch treatment

WLAN 802.11 a/b/g/n/ac, BT, GPS, GLONASS

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

Smart Card Reader (Default M116PT)

TPM 2.0, kensington lock

IP65 waterproof and dustproof

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

Custom configuration



Memory



Storage



4G LTE



GigaLAN
Port



Barcode
Reader



HF/ UHF RFID
Reader



Expansion
Port



Micro
HDMI Port

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.

Custom configuration



Memory



Storage



4G LTE



Gigalan
Port



Barcode
Reader



HF/UHF RFID
Reader



Expansion
Port



Micro
HDMI Port

Application



Machinery & Equipment Inspections

“HIGH PROCESSING
POWER AND BRILLIANT
TOUCH SCREEN”

The M116K 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" Rugged Windows Tablet M116K Series



FC CE

“HIGH PROCESSING POWER IN A RUGGED ENCLOSURE.”

- 11.6", 1920 x 1200, PCAP touchscreen
- Intel® Core™ i5-7200U 2.5 GHz, up to 3.1 GHz
- Intel® Core™ i5-7300U 2.60 GHz, up to 3.5 GHz
- Windows 10 IoT Enterprise (Optional),
Linux Ubuntu 18.04 (Optional)

4 GB LPDDR4, 128 GB SSD

Light sensor, g-sensor, gyro, e-compass

2 MP webcam, 8 MP rear camera with autofocus

Anti-glare touch treatment

WLAN 802.11 a/b/g/n/ac, BT, GPS, GLONASS

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

TPM 2.0, kensington lock

IP65 waterproof and dustproof

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

Sunlight readable screen with anti-glare solution

13.3" Windows Ultra-Rugged Tablet M133WK Series



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

- 13.3", 1920 x 1080, PCAP touchscreen
- Intel® Core™ i5-8265U 1.60 GHz, up to 3.90 GHz
- Windows 10 IoT Enterprise

4 GB SODIMM DDR4-2400, 128 GB M.2 SSD

Light sensor, g-sensor, gyro, e-compass

Four USB 3.0, one USB 3.1 (Type C)

RJ45-10/100/1000 Mbps LAN for Ethernet

Docking connector

More than 10 hours battery operating time

TPM 2.0, kensington lock

BT, WLAN 802.11 a/b/g/n/ac

IP65 waterproof and dustproof

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

Custom configuration

Up to
16 GB

Memory

Up to
512 GB

Storage

Up to
512 GB

2nd
Storage



GPS/
GLONASS



4G LTE

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.





M133WK

Brilliant laptop-size touch screen and powerful processing in a tablet form factor, ideal for the automotive industry and vehicle diagnostics.



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