WINMATE
www.winmate.com

AUTOMOTIVE INDUSTRY

Diagnostics/ Engineering/ Manufacturing

COMPACT TEST TOOL FOR
QUALITY CONTROL AND TESTING

Q1 - 2023

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:
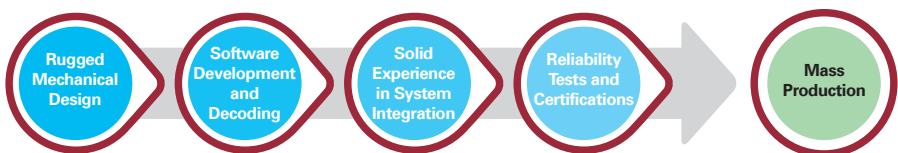
- Dry and wet optical bonding
- Panel enhancement for sunlight readability
- Anti-reflection (AR) and anti-glare (AG) glass protection coating
- Light sensor
- Hyper dimming
- Electronic potting
- Touch screen integration: projected capacitive, resistive, or SAW touch
- Waterproof enclosure
- Military 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
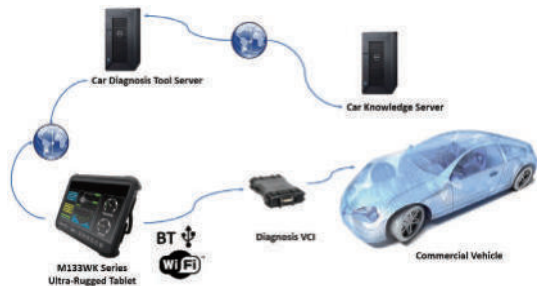
Application: Vehicle Diagnostics

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" Rugged tablet

Main Challenges

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

Why Winmate

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

" MANAGE WORKSHOP INVENTORY EASILY WITH ALL-IN-ONE RUGGED TABLET COMPUTERS "
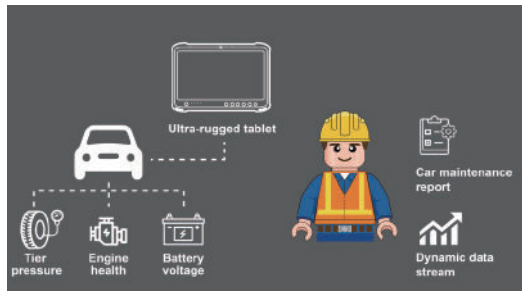
Application: Car Repair Workshop

Application Story (Rugged Tablet)

To Minimize the Volume of Your Time

Background

When a business car malfunction, 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

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

" PROVIDING A BETTER MOBILE COMPUTING SOLUTION. "

Application: Quality excellence

Application Story (Rugged Tablet)

Robotic Teach Pendant

Background

Integrating industrial robots into the production facility to handle numerous manufacturing processes offers many benefits, including reducing operator hours and opportunities to increase throughput, boost yields, improve efficiency, and minimize downtime through insights gained from advanced data analytics. Almost all aspects are digitized, spanning machine control, monitoring, management, and data reporting and analysis. Even operators interact with machines digitally using a human-machine interface (HMI). For a robot to be capable of performing an application, it must first be programmed. Robotic teach pendants are the most common device used to program industrial robots. Industrial robots are best suited for performing repetitive tasks, making teach pendants ideal programming solutions as they are designed for teaching and repeat programming. Through this technique, operators safely program robots for specific application parameters and spare the harsh foundry environment. Hence, suitable for professional industries such as agrifood, healthcare, security, hazmat, nuclear, and advanced manufacturing.

Core products

- Winmate Customized Rugged Tablet
- Fanless Box PC

Main Challenges

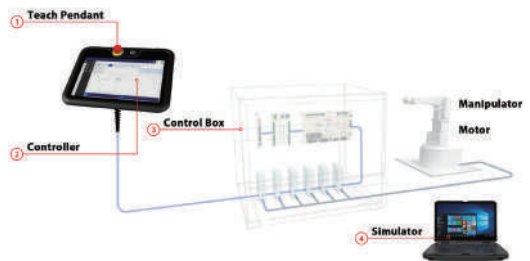- Big and bright touchscreen
- Ergonomic housing with safety elements
- One cable for various signal input

Why Winmate

- Ergonomic design with safety features
- Accurate and precise PCAP touch panel
- Customization and problem-solving solutions

" **EASILY USE AND SEE DEVELOPER FRIENDLY PROGRAMMING TOOLS.** "

Application: Winmate offers customization services to meet our customers' needs.

Application Story (Rugged Laptop)

Integrated Trucking Diagnostic and Repair

Background

Over the years, the trucking industry has evolved in operation, marketplace, technologies, etc. In the USA, the industry has seen its ups and downs during the year, affecting general manufacturing, business model, and growth.

Trucks are now being supplied with far better modern technology than ever in the past to meet the delivery demands. Some begin to integrate innovative technology to improve the vehicle's functionality, maintain and track their supply chain system, and increase customer trust by sharing the products' journey details.

So, when a truck breaks down, it only has minimal downtime. To reduce the number of fleets spent in the workshop, the vehicle dealerships should promptly carry out the 100% check of vehicles that pass through the workshop. One of the best solutions is to use optimal devices to digitalize the check sheets and information transfer.

Conventional business-class laptops were not up to the task, so the customer chose Winmate 14″ Convertible Tough Laptop and 10.1″ Tough Tablet Computers for their innovative automotive workshop.

Core Products

- L140TG-4 - 14″ Convertible Rugged Laptop
- S101TG - 10.1″ Tough 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

"TOUTH TABELT COMPUTERS 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.

Moreover, due to an oversaturation of vehicle providers, customers increasingly value brand behaviors and service ahead of their products. Thus, forcing the luxury automakers and their hundreds of dealer technology organizations to step up their aftersales service game. One is by providing a better mobile computing solution to keep the service technicians connected, capture critical customer vehicle maintenance data in real-time to meet customers' service expectations, and provide proactive service.

" **TOOLS AND DEVICES USED FOR MAINTENANCE MUST BE CAREFULLY SELECTED TO MAINTAIN A HIGH-QUALITY SERVICE, DEPENDABILITY, AND EFFICIENCY OVER THEIR EXTENSIVE DEALERSHIP NETWORK.** "
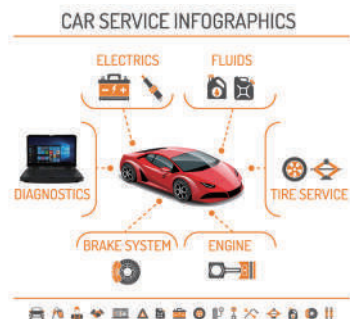
Core Products

- 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

13.3"/14" Windows Rugged Laptop
L140V2-3/ L140V2-4

Up to **32 GB**
Memory

Up to **2 TB**
Storage

Camera

Smart Card Reader

Fingerprint Scanner

RFID
HF RFID Reader

COMPLIANT MIL-STD 810H FCC CE

"COGNITIVE DOMINANCE BUILT ON MOBILITY."

- 13.3", 1920 x 1080, LED Panel (L140V2-3)
- 14", 1920 x 1080, LED Panel (L140V2-4)
- AMD RYZEN V2516 @2.1GHz , up to 3.95GHz
- Fanless cooling system
- Full-scale QWERTY layout keyboard

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

Semi rugged laptop

"MILITARY LAPTOP WITH AMD RYZEN V2516"

Winmate L140V2 series rugged laptop includes 1920 x 1080 LED panel with direct optical bonding, and anti-glare technology that thrive beneath daylight conditions outdoor viewable FHD display up to 1000 nits of brightness.

Up to 32 GB
Memory

Up to 2 TB
Storage

Camera

Smart Card Reader

Fingerprint Scanner

HF RFID Reader

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
L140TG-3/ L140TG-4

NEW PRODUCT

COMPLIANT MIL-STD 810H   IP65   IC FC CE

" EMPOWER THE PUBLIC SECTOR WITH POWERFUL, RUGGED LAPTOPS. "

- 13.3", 1920 x 1080, PCAP touchscreen (L140TG-3)
- 14", 1920 x 1080, PCAP touchscreen (L140TG-4)
- 11th Gen. Intel® Processor Family – Tiger Lake Processor
- Fanless cooling system
- Full-scale QWERTY layout keyboard

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

Smart card reader and removable SSD

13.3″ / 14″ Windows Rugged Laptop
L140AD Series

NEW PRODUCT

COMPLIANT MIL-STD 810H IP65 **FC** **CE**

" INTELLIGENT WORKLOAD OPTIMIZATION. "

- 12th generation Intel Processor Family – Alder Lake Processor
- Rugged extreme with 13.3″/ 14″, 1920 x 1080 LED panel with direct optical bonding

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

WiFi-6E & optional WWAN 5G support

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

Optional discrete Nvidia Graphic box

Custom configuration

Up to **32 GB**	Up to **4 TB**	
Memory	Storage W1 2nd SSD	Camera
Fingerprint Scanner	HF RFID Reader	

Application

Built On Advanced Hybrid Architecture

"SUPPORTING FUTURE BEST-IN-CLASS PERIPHERALS"

Winmate 13.3″ rugged laptap with 12th Gen Intel® Core™ Processors provide support for PCIe 4.0 and DDR5 memory, as well as security and manageability features workload optimization, enhanced graphics and enhanced peripheral, connectivity, and fast memory access capabilities.

Custom configuration

Up to 32 GB
Memory

Up to 4 TB
Storage W1 2nd SSD

Camera

Fingerprint Scanner

RFID
HF RFID Reader

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 12th Gen Intel® Core™ Processors, growing 35% in performance from the previous generations, reaching the highest clock rate of 5.0GHz – achieving premium multitasking performance.

15.6" 4K Windows Rugged Laptop
L156AD Series

NEW PRODUCT

COMPLIANT MIL-STD 810H · IP65 · FC C€

" BOOST PERFORMANCE WITH AI. "

- 12th generation Intel Processor Family – Alder Lake Processor
- Optional discrete Nvidia Graphic card

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

WiFi-6E & optional WWAN 5G support

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

14" Windows Rugged Tablet
M140TG / TGT

NEW PRODUCT

FC CE

" ALWAYS ON INDUSTRIAL MOBILE PC. "

- 11th Gen. Intel® Processor Family – Tiger Lake Processor
- 14-inch tablet, 1920 x 1080 wide viewing angle LED Panel

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 (when charging) or -10°C to 50°C (on battery)

Custom configuration

Up to 32 GB Memory	**Up to 2 TB** Storage	**WWAN** WWAN
Smart Card Reader (M140TGT)	**RFID** HF RFID Reader	

Application

See The Data With Less Scrolling

"USE IT AT EASE ANYWHERE AND EVERY TIME"

The M140TGT's 14 inch 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.

Custom configuration

Barcode Reader

NFC RFID 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.

4.3" Android Rugged Handheld Computer

E430RQ8

MIL-STD 810G · IP65 · FCC CE

" RUGGED EFFICIENCY ON-THE-GO. "

- 4.3", 800 x 480, 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 aensors, automatic screen rotation

WLAN, BT

USB 3.0 Type C (OTG), docking connector

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

260g lightweight portability

IP65 waterproof and dustproof

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

5" Android Rugged Handheld Computer
E500QK

NEW PRODUCT

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

- Qualcomm® Snapdragon™ 660 (Octa-core 2.2 GHz)
- 5", 1280 x 720 Panel with direct optical bonding
- 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
WLAN, BT, GPS, WWAN (Optional)
USB 3.0 Type C (OTG), docking connector
NFC (Read / Write, Peer-to-Peer mode) (Optional)
With 19 keypad include power key
IP67 waterproof and dustproof
Storage temperature -30°C to 70°C

Custom configuration

WWAN

NFC RFID Reader

Docking Connector

Application

Automotive Factory Inventory Control

"SPEED UP REAL TIME 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.

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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.

7" Android Rugged Tablet
M700DQ8

  FC CE

" # 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

Ambient light sensor, E-compass, Gyro & acceleration aensors, automatic screen rotation

8 MP webcam, 13 MP rear camera with autofocus

USB 3.0 Type C (OTG), docking connector

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

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

550g lightweight portability

IP65 waterproof and dustproof

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

13.3" Rugged Windows Tablet
M133TG

" PORTABLE AND POWERFUL SOLUTION. "

- 13.3", 1920 x 1080, PCAP touchscreen
- 11th generation Intel® Tiger Lake processor
- Windows 10 IoT Enterprise

Light sensor, g-sensor, Gyro, E-compass

Webcam and rear camera with autofocus

WLAN, BT, GPS, GLONASS

IP65 waterproof and dustproof

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

Custom configuration

HF RFID Reader

Barcode Reader

WWAN

Application

Connected Truck

"CONNECTIVITY FOR VEHICLES ON THE ROAD"

Installed on a driver's dashboard with vehicle cradle, the 13.3" rugged tablet M133TG allow status monitoring of a semi-truck circling between the automobile production plants in Europe.

Custom configuration

Up to 32 GB	**Up to 16 GB**	**Up to 2 TB**
Memory (S101TG)	Memory (S101EK)	Storage (S101TG)
Up to 512 GB	Barcode Reader	**USB/ UART**
Storage (S101EK)	Barcode Reader	Expansion Port
Battery Hotswap	WWAN	Micro HDMI 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

S101TG/ S101EK

NEW PRODUCT

MIL-STD 810H · IP65 · FC C E

" OPTIMUM SIZE, MAXIMUM PRODUCTIVITY. "

- 10.1", 1920 x 1200 WUXGA with PCAP touch
- 11th generation Intel® Tiger Lake processor (S101TG)
- Intel® Elkhart Lake Celeron® N6210 (S101EK)

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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

10.1″ Android Rugged Tablet
S101M9/ L

NEW
PRODUCT

COMPLIANT MIL-STD 810H IP65 **FC C E**

"
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

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

Custom configuration

RFID Reader

Barcode Reader

WWAN

Battery Hotswap

Micro HDMI Port

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.

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Custom configuration

Up to 32 GB
Memory

Up to 2 TB
Storage

Barcode Reader

WWAN

RFID
HF RFID Reader

Micro HDMI Port

High Capacity Battery 16hr

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
M101TG

NEW PRODUCT

Microsoft Azure Certified | COMPLIANT MIL-STD 810H | IP65 | FC C E

" **OPTIMUM SIZE, MAXIMUM PRODUCTIVITY.** "

- 10.1", 1920 x 1200 IPS LED Panel with direct optical bonding
- Intel® Core™ i5-1135G7 Tiger Lake processor

IP65 waterproof

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

Sunlight readable with anti¬glare solution

Hot¬swappable battery design

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

10.1" Windows Rugged Tablet PC
M101EK

NEW PRODUCT

FC CE

" **RUGGED ENOUGH TO WITHSTAND WEAR & TEAR.** "

- 10.1", 1920 x 1200 IPS LED Panel with direct optical bonding
- Intel® Elkhart Lake Celeron® N6210 x86 Processor

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)

Custom configuration

Up to 8 GB	Up to 512 GB	Barcode Reader
Memory	Storage	Barcode Reader
WWAN	RFID Reader	Micro HDMI Port
High Capacity Battery 16hr	USB/RS-232 Expansion Port	

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 — WWAN

GigaLAN Port

Barcode Reader

RFID — HF/ UHF RFID Reader

Micro HDMI Port

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
M116TG

NEW PRODUCT

Microsoft Azure Certified · COMPLIANT MIL-STD-810H · IP65 INGRESS PROTECTION · FC CE

"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

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

11.6" Windows Rugged Tablet
M116P

BRILLIANT SUNLIGHT READABLE SCREEN.

- 11.6", 1920 x 1080, PCAP touchscreen
- Intel® Pentium® N4200 1.1 GHz, up to 2.5 GHz
- Windows 10 IoT Enterprise (Optional)

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4 GB LPDDR4, 128 GB SSD

Light sensor, g-sensor, Gyro

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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)

Kensington lock

IP65 waterproof and dustproof

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

Custom configuration

Up to **8 GB** Memory	Up to **512 GB** Storage	WWAN
GigaLAN Port	Barcode Reader	HF RFID Reader
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.

13.3" Windows Ultra-RuggedTablet
M133WK

MIL-STD 810G | IP65 | FC CE

" 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 DDR4, 128 GB M.2 SSD
Light sensor, g-sensor, Gyro, E-compass
Four USB 3.0, one USB 3.0 (Type C)
RJ45-10/100/1000 Mbps LAN
Docking connector
More than 10 hours battery life
TPM 2.0, Kensington lock
BT, WLAN
IP65 waterproof and dustproof
MIL-STD-810G shock, vibration, and drop resistance

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.

10.4" Windows Ultra-Rugged Tablet
R10IWK8M-RTT2GP

" STRONG AND STURDY FOR THE AUTOMOTIVE INDUSTRY. "

- 10.4", 1024 x 768 Resolution
- Intel® Core™ i5-8265U
- Windows 10 IoT Enterprise (Optional),
  Linux Ubuntu 20.04 (Optional)

4 GB SO-DIMM, DDR4 2400 MHz, 128 GB M.2 2242 SATA SSD
TPM 2.0
USB 3.2 Gen1x1 (Type A), RS 232/422/485
RJ45 for Ethernet
Magnesium Alloy & ABS+PC
IP54 waterproof and dustproof
MIL-STD-810G shock, vibration, and drop resistance

Custom configuration

Up to **32 GB** Memory	Up to **512 GB** Storage
Barcode Reader	WWAN
Protection Glass	Camera

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

Up to
8 GB
Memory

Up to
512 GB
Storage

Barcode Reader

WWAN

Protection Glass

Camera

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.

8.4" Windows Ultra-Rugged Tablet

R08IP8M-RTU1GP

"A POWER-EFFICIENT TERMINAL WITH HIGH MOBILITY."

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

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4 GB SO-DIMM, DDR3L 1600 MHz, 128 GB M.2 2242 SATA SSD

TPM 2.0

USB 3.2 Gen1x1 (Type A), RS-232/422/485

RJ45 for Ethernet

Magnesium Alloy

IP54 waterproof and dustproof

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

8.4" Windows Ultra-Rugged Tablet
R08IWK8M-RTU1GP

" 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)

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4 GB SO-DIMM, DDR4 2400 MHz, 128GB M.2 2242 SATA SSD

TPM 2.0

USB 3.2 Gen1x1 (Type A), RS-232/422/485, docking connector

RJ45 for Ethernet

Magnesium Alloy

IP54 waterproof and dustproof

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

Custom configuration

Up to **32 GB** Memory	Up to **512 GB** Storage
Barcode Reader	WWAN
Protection Glass	Camera

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.

R10IP8M-RTT2GP

Custom configuration

Up to 8 GB
Memory

Up to 512 GB
Storage

Barcode Reader

WWAN

Protection Glass

Camera

Application

Tire Fitting Service

"FOR EXTREME WORK CONDITIONS"

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

" A POWER-EFFICIENT TERMINAL WITH HIGH MOBILITY. "

- 10.4", 1024 x 768 Resolution
- Intel® Pentium® N4200 (2M Cache, up to 2.5 GHz)
- Windows 10 IoT Enterprise (Optional), Linux Ubuntu 20.04 (Optional)

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

TPM 2.0

Two USB 3.2 Gen.1, 1 x RS232/422/485

RJ45 for Ethernet

Magnesium Alloy & ABS+PC

IP54 waterproof and dustproof

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

L140TG Series
13.3" or 14"CONVERTIBLE RUGGED LAPTOP

L140TG Rugged Laptop powered with Intel® Core™ Tiger Lake and Windows 10 IoT Enterprise operating system. The L140TG supports comprehensive wireless connectivity options such as WLAN, BT, GPS/GLONASS, and 4G LTE (optional) to keep workers connected in even the most remote locations. Also, it features a 14-inch daylight readable panel 1920 x 1080 with direct optical bonding, anti-glare treatment, and a user-friendly projective capacitive touch screen. L140TG series offers a new generation of compact and lightweight portability in a robust form factor.