



# **AI Rugged Tablet AI Rugged Laptop**

**Rugged Mobility Solution**

**WinMATE**

# Why Winmate

- Depth of experience 30+ years
- Unmatched breadth of products and services
- More investments in R&D
- Market leader in multiple categories
- Extensive partner ecosystem
- Multiple innovation and workplace awards
- Winmate has successfully attained various certifications, including ISO 9001 for a robust Quality Management System, ISO 14001 for an environmentally conscious approach, IECQ QC-080000 ensuring quality in electronic components manufacturing, ISO 13485 for the production of safe medical devices, IEC 80079-34 for equipment used in explosive atmospheres, ISO 45001 for a commitment to occupational health and safety, and ISO 27001 for the effective management and protection of information assets.

## Extensive Reach

### Scalable to meet any enterprise demands





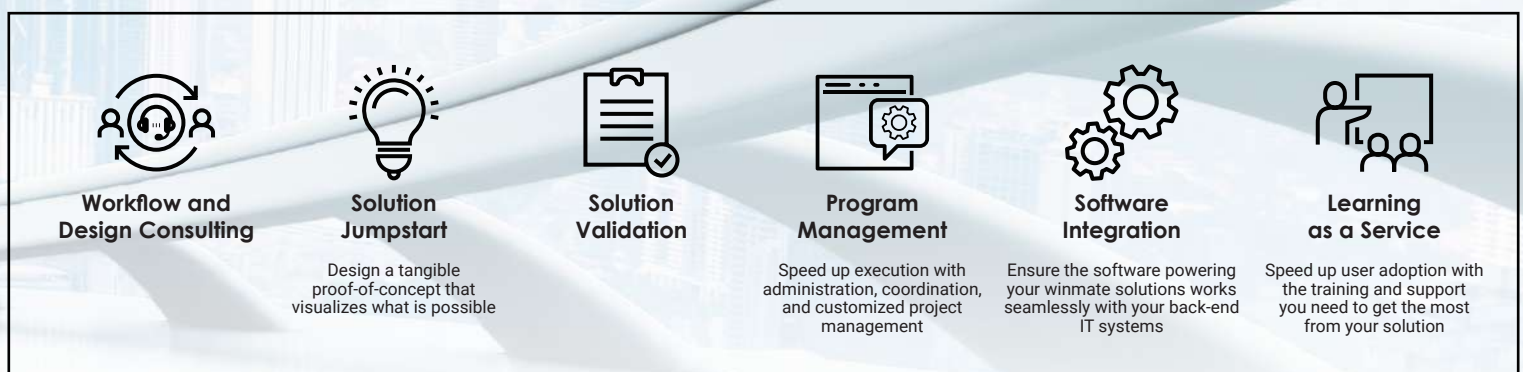
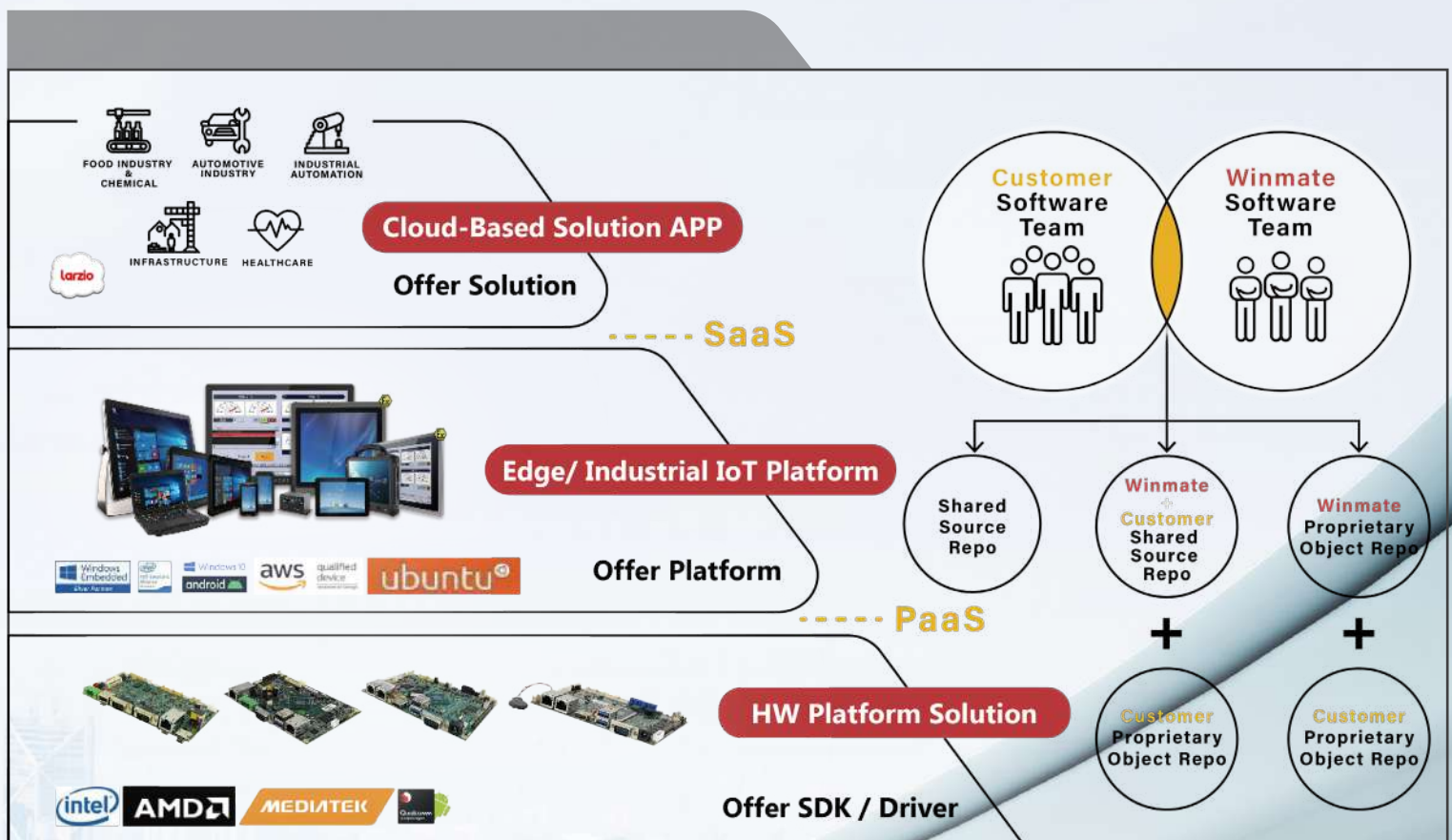
# Co-creating for SaaS Business

Artificial  
intelligence

Dashboard  
Editor

Android  
APP design

Ensure you get the most out of AI, RFID and Winmate SW solutions

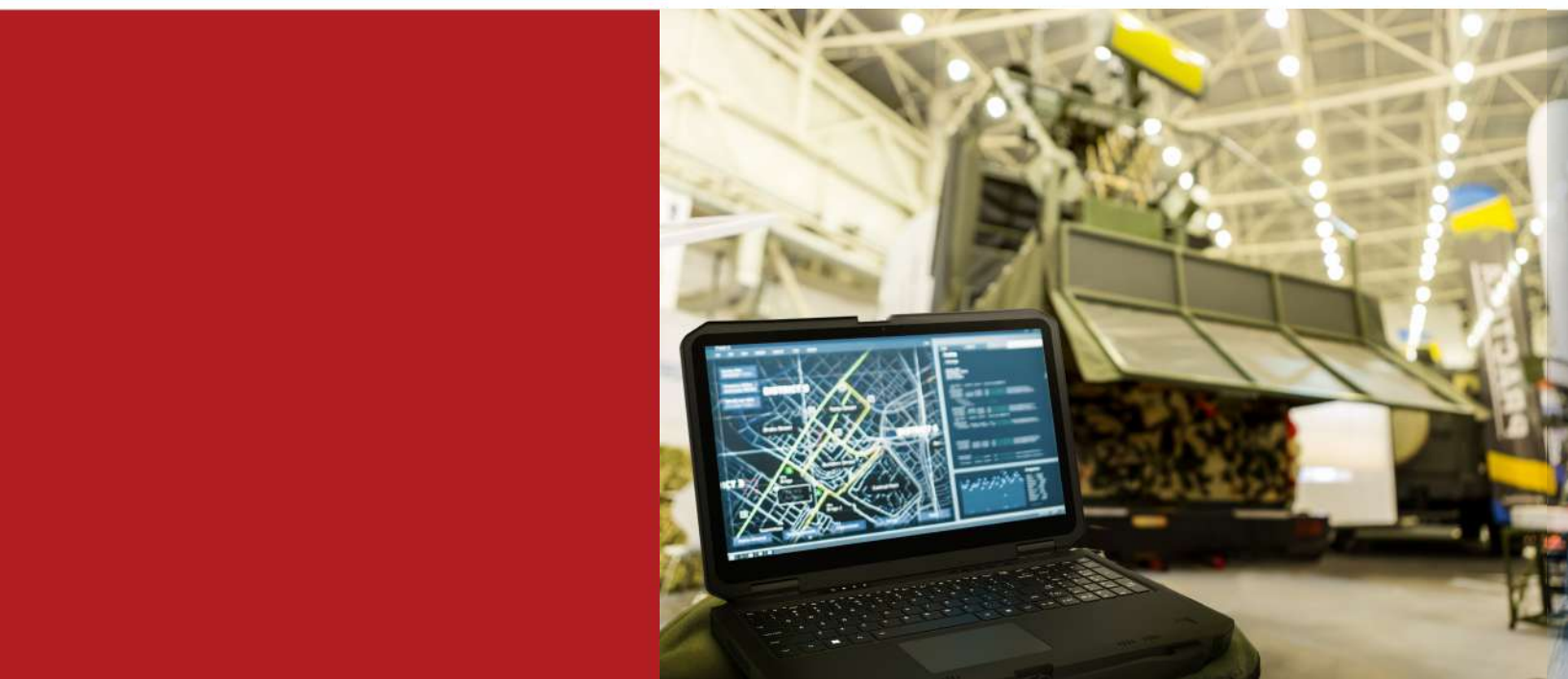
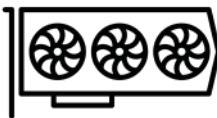
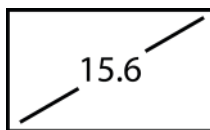




# The Most Durable Laptops Designed for Demanding Tasks

13.3", 14" and 15.6" Rugged Laptops Product Guide

**4K**  
Ultra HD







# Overview

Winmate's rugged laptop series stands out as a formidable solution designed to meet the demanding requirements of challenging environments. This overview focuses on three key features that define the exceptional capabilities of Winmate's rugged laptops.

## ■ High-Performance Graphics for Demanding Tasks

To meet the demands of graphics-intensive tasks, the laptop is equipped with Nvidia T1000 and A2000 Graphic Cards. This ensures seamless and efficient performance for professionals relying on complex simulations or graphics-heavy applications, enhancing the device's overall utility and versatility.

## ■ Unmatched Endurance with Dual Battery Design

Winmate's rugged laptop sets a new standard for productivity with its dual battery system and hot-swappable design. This innovative feature guarantees uninterrupted workflow throughout the entire day, making it an indispensable tool for professionals who require sustained computing power in the field.

## ■ Versatility in Any Environment: IP65 Waterproof and Dustproof

With an IP65 rating for waterproof and dustproof capabilities, this laptop is designed to endure exposure to water and resist dust ingress. This versatility enables its reliable operation across various industries and environmental conditions, making it a dependable choice for professionals working in unpredictable settings.

Winmate's rugged laptop is a well-rounded solution, blending endurance, advanced features, and high-performance graphics to cater to the diverse needs of professionals working in rugged and challenging settings.

## Features:

- 12th Gen. Intel® Processor Family – Raptor Lake Processor
- 15.6" 4K Panel resolution with PCAP touch
- Dual battery with hot-swappable design for whole-day-work
- Anti-glare technology for sunlight readability
- Magnesium alloy enclosure with double injection for drop protection
- IP65 waterproof and dustproof
- Utilizing NVIDIA T1000 , A2000 & Intel A370M Graphic Cards





# Application

Winmate's rugged laptops find application across a diverse range of industries and scenarios, offering a robust computing solution tailored to withstand challenging environments. Here are some key applications of Winmate's rugged laptops:

Winmate's rugged laptops are well-suited for field service professionals who work in various industries such as utilities, telecommunications, and construction. The durability of these laptops ensures they can withstand outdoor conditions and demanding terrains.

In manufacturing plants, where exposure to dust, vibrations, and potential drops is common, Winmate's rugged laptops thrive. These laptops facilitate real-time data access, process monitoring, and inventory management, enhancing operational efficiency on the shop floor.

The rugged features of Winmate's laptops make them suitable for military and defense applications. These laptops can withstand extreme conditions and are designed to operate reliably in the field during critical missions.

Rugged laptops are valuable in logistics and supply chain management, where they are used for tasks such as inventory control, route optimization, and real-time tracking. The ability to operate in varying environmental conditions ensures uninterrupted operations.

Construction professionals benefit from Winmate's rugged laptops in managing project documentation, blueprints, and communication on construction sites. The laptops' durability ensures they can endure the rigors of the construction environment.

In healthcare, Winmate's rugged laptops are used in hospital environments where durability is crucial. These laptops provide healthcare professionals with a reliable and durable computing solution for tasks such as patient record access and medical applications.

Rugged laptops play a vital role in emergency response scenarios. The resilience of these devices ensures they can operate effectively in adverse conditions, providing critical information and communication capabilities during emergencies.

In essence, Winmate's rugged laptops cater to a wide array of industries, providing professionals with a reliable, durable, and efficient computing solution in environments where standard laptops may not suffice. The versatility of these devices is a testament to their adaptability in addressing the unique challenges posed by rugged and demanding work settings.



Field Service Operations



Manufacturing Environments



Military and Defense



Logistics and Supply Chain Management



Construction Sites



Healthcare Settings



Emergency Response and Public Safety

# Success Stories

## How Winmate L140AD-4 Redefined Policing for Nordic Law Enforcement

Winate Rugged Laptop designed to withstand extreme temperatures

### Background



In the ever-evolving landscape of law enforcement technology, the Nordic Police faced the challenge of upgrading their existing systems to meet the demands of modern policing. Seeking a solution that combined service excellence with unparalleled adaptability, they turned to the Winmate L140AD-4 laptop. This success story unfolds as the Winmate L140AD-4 emerges as the perfect choice for the Nordic Police.

### Core Products



Winmate L140AD-4: 14" Convertible Rugged Laptop

### Main Challenges



The Nordic Police were grappling with outdated technology that hindered their ability to respond swiftly to dynamic situations. Harsh weather conditions and the need for seamless collaboration demanded a robust, adaptable solution. The challenge was to find a device that could withstand Nordic climates, provide real-time connectivity, and enhance overall operational efficiency.

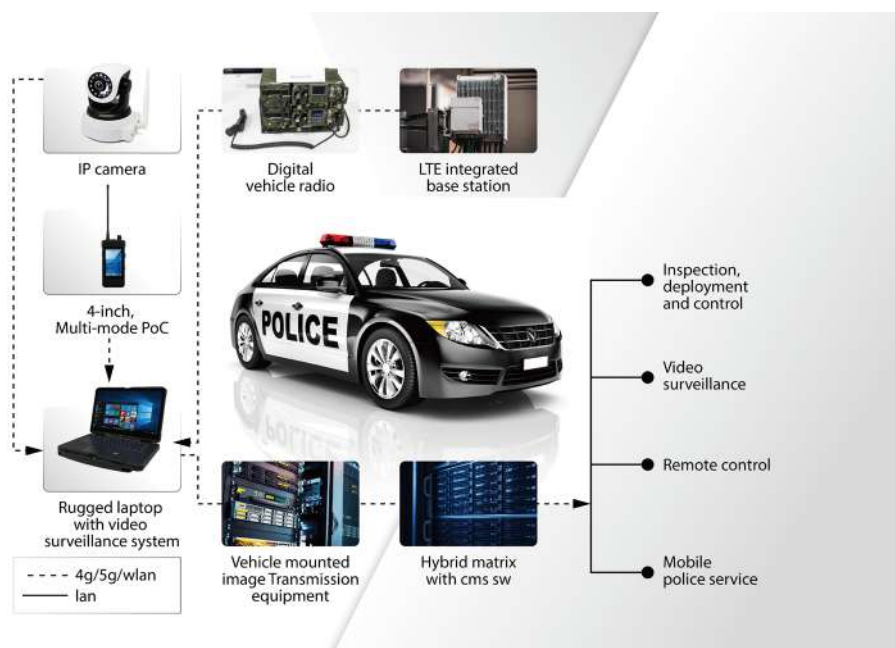
### Why Winmate



The adaptability of the Winmate L140AD-4 was put to the test in various scenarios. Whether patrolling urban streets or navigating remote landscapes, the laptop consistently delivered peak performance. Its user-friendly interface allowed officers to quickly adapt to the new technology, fostering widespread acceptance and integration. The integration of the Winmate L140AD-4 brought about transformative results for the Nordic Police. Operational efficiency increased significantly, response times improved, and officers could collaborate seamlessly. The device's adaptability ensured that it became an indispensable tool across diverse policing contexts. The Nordic Police now stand equipped with a solution that not only meets but exceeds their technological expectations.



L140AD-4





# Smart Factory AI Intelligent Image Recognition

## Rugged Laptop with NVIDIA Graphic Cards

### Background

Explore the cutting-edge capabilities of Winmate L156AD-M1, features like a 15.6" 4K panel, optional Nvidia Graphics Card, dual battery, and IP65 protection, witness heightened efficiency and safety in industrial settings. Seamlessly integrating into AI systems, this powerhouse accelerates real-time data analysis and predictive maintenance, significantly reducing traditional manual inspection efforts.



### Core Products

Winmate L156AD-M1: 15.6inch Rugged Laptop with Intel® Raptor Lake Processor



### Main Challenges

Integrating Winmate's L156AD-M1 into our AI-driven smart factory posed multifaceted challenges. The complexity of linking the rugged tablet to diverse components within the image recognition system demanded meticulous integration efforts. Optimizing algorithms for the 13th Gen Intel® Processor and Nvidia Graphics Cards was crucial to efficiently handle intricate image recognition tasks. Workforce adaptation proved challenging, necessitating comprehensive training to harness the tablet's advanced features for real-time data analysis and AI-driven functions.



### Why Winmate

Featuring a 15.6" 4K Panel with PCAP touch, the Winmate L156AD-M1 offers a high-resolution display for precise interaction. The optional discrete Nvidia Graphics Card ensures enhanced graphics capabilities. With a dual battery and hot-swappable design, it supports uninterrupted operations throughout the day. Anti-glare technology guarantees optimal sunlight readability, and the magnesium alloy enclosure with double injection provides robust drop protection.



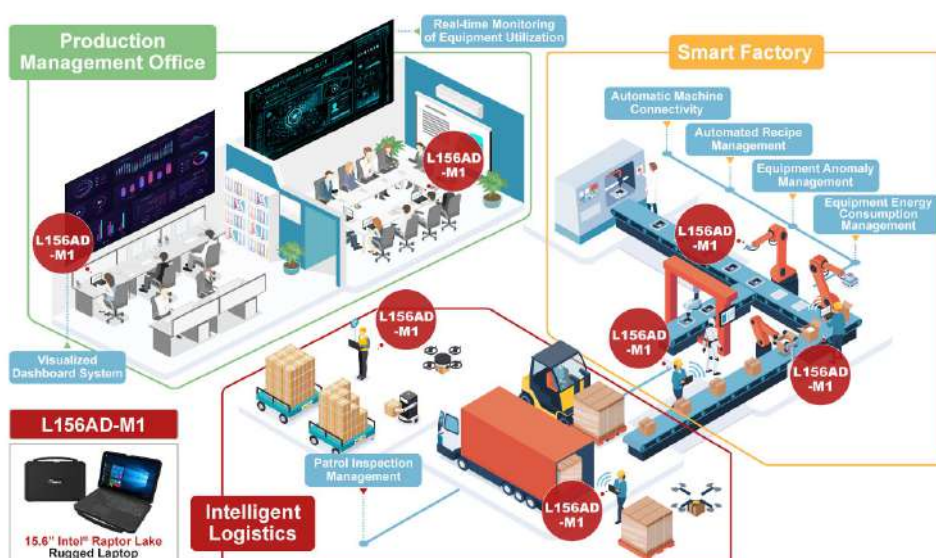
Rugged Tablet & Laptop

Why Winmate

AI Ready Solution

14" and 15.6" Laptop

13.3", 14" and 15.6" Tablet



L156AD-M1



# Highlights

## 13.3" , 14" and 15.6" AI Rugged Laptop

Rugged Tablet & Laptop

### 13.3" Rugged Laptop **L140AD-3**



- 13.3", 1920 x 1080 with multitouch
- 12th Gen. Intel® Processor Family
- Dual battery with hotswappable design for whole day work

### 14" Rugged Laptop **L140AD-4**



- 14" 1920 x 1080 with multitouch
- 12th Gen. Intel® Processor Family
- Dual battery with hotswappable design for whole day work

### 14" Rugged Laptop **L140AD-4L**



- 14" 1920 x 1080 with multitouch
- 12th Gen. Intel® Processor Family
- Dual battery with hotswappable design for whole day work

### 15.6" Rugged Laptop **L156AD**



- 15.6" FHD Panel resolution with PCAP touch
- 12th generation Intel® Processor Family
- IP65 waterproof and dustproof

### 15.6" Rugged Laptop **L156AD-M1**



- 15.6" FHD Panel resolution with PCAP touch
- 12th generation Intel® Processor Family
- Optional GPU Graphic Cards

### 15.6" Rugged Laptop **L156AD-4KM1**



- 15.6" 4K Panel resolution with PCAP touch
- 12th generation Intel® Processor Family
- Optional GPU Graphic Cards

Why Winmate

AI Ready  
Solution

14" and 15.6"  
Laptop

13.3", 14" and  
15.6" Tablet



13.3 inches

Specifications: L140AD-3



Rugged Tablet & Laptop

Model Name		L140AD-3
Display	Resolution	1920x1080
	Contrast Ratio	1000:1
	View Angles	89,89,89,89
	Size	13.3 inches
	Panel Brightness	500.0 nits
	Bonding	Optical Bonding for Sunlight Viewability
System Specification	Processor	Intel Core i5-1235U(up to 4.4GHz)
	Storage	256GB M.2 NVMe SSD 512GB M.2 NVMe SSD (Optional) 1TB M.2 NVMe SSD (Optional) 2TB M.2 NVMe SSD (Optional) 2nd storage available with up to 2TB M.2 NVMe SSD (Optional)
	Security	Trusted Platform Module (TPM) 2.0 Kensington Lock
	BT	Support
	WLAN	Support
	Memory	8GB DDR5 SDRAM 16GB DDR5 SDRAM (Optional) 32GB DDR5 SDRAM (Optional)
	WWAN	4G LTE (Optional) 5G (Optional)
	GNSS	GPS, GLONASS
	RFID	HF RFID reader 13.56 MHz (Optional)
	Operating System	Windows 10 IoT Enterprise LTSC (64 bit) Windows 11 IoT Enterprise SAC (64 bit) (Optional)
	Smart Card Reader	Smart Card Reader
Mechanical	Dimension	340 x 230 x 38 mm
	Weight	2.65 kg
	Cooling System	Fan design
Environment	Operating Humidity	10% to 90% RH, non-condensing
	Storage Temperature	-30°C to 70°C
	Operating Temperature	-20°C to 60°C
	Vibration	MIL-STD-810H Method 514.8 Procedure I
	Shock	MIL-STD-810H Method 516.8 Procedure I
	Drop	MIL-STD-810H Method 516.8, 3 ft
	IP rating	IP65
Certification	Certification	CE, FCC
IO Ports	USB Port	1 x USB 3.0 (Type C) 3 x USB 3.0 (Type A) (One USB-A is mutually exclusive with 2nd LAN)
	Video	1 x HDMI 4K Output (Optional)
	Serial Port	1 x DB9 (RS232 / RS422 / RS485, software switchable)
	Audio	1 x Audio combo 3.5mm audio combo jack Dual Digital Mic With Noise Cancellation Dual Speaker
	LAN	1 x RJ45-10/100/1000 GigaLAN port Optional 2nd LAN (Mutually exlcusive with one USB-A & Smart Card Reader)
	Indicator	4x LED Indicator for Power, Battery, HDD, RF status
	SIM Card Slot	1 x Nano SIM card slot
	SD Card Slot	1 x Micro SDXC slot
Control	Button	1 x Power, 2 x volume key, 2 x Programmable Function Keys QWERTY keyboard with RGB backlight
	Front Camera	2MP Front Camera
	Rear Camera	8MP rear camera with autofocus and LED light (Optional)
Accessory	Accessory	Adapter and Power Cord Standard Battery
	Optional Accessory	Spare Battery (Optional) Battery Charger (Optional) Vehicle Charger (Optional)
Power	Power Rating	19V DC
	Adapter	100-240V, 50-60Hz / 19V DC
	Battery	Hot-swappable 2 x 11.55V, typ. 3220 mAh Li-Ion Battery (3S1P)

Why Winmate

AI Ready  
Solution

14" and 15.6"  
Laptop

13.3", 14" and  
15.6" Tablet

14.0 inches

Specifications: L140AD-4 / L140AD-4L



Model Name		L140AD-4	L140AD-4L
Display	Resolution	1920x1080	1920x1080
	Contrast Ratio	800:1	800:1
	View Angles	85,85,85,85	85,85,85,85
	Size	14.0 inches	14.0 inches
	Panel Brightness	700.0 nits	300.0 nits
	Bonding	Optical Bonding for Sunlight Viewability	Optical Bonding for Sunlight Viewability
System Specification	Processor	Intel Core i5-1235U(up to 4.4GHz)	Intel Core i5-1235U(up to 4.4GHz)
	Storage	256GB M.2 NVMe SSD 512GB M.2 NVMe SSD (Optional) 1TB M.2 NVMe SSD (Optional) 2TB M.2 NVMe SSD (Optional) 2nd storage available with up to 2TB M.2 NVMe SSD (Optional)	256GB M.2 NVMe SSD 512GB M.2 NVMe SSD (Optional) 1TB M.2 NVMe SSD (Optional) 2TB M.2 NVMe SSD (Optional) 2nd storage available with up to 2TB M.2 NVMe SSD (Optional)
	Security	Trusted Platform Module (TPM) 2.0 Kensington Lock	Trusted Platform Module (TPM) 2.0 Kensington Lock
	BT	Support	Support
	WLAN	Support	Support
	Memory	8GB DDR5 SDRAM 16GB DDR5 SDRAM (Optional) 32GB DDR5 SDRAM (Optional)	8GB DDR5 SDRAM 16GB DDR5 SDRAM (Optional) 32GB DDR5 SDRAM (Optional)
	WWAN	4G LTE (Optional) 5G (Optional)	4G LTE (Optional) 5G (Optional)
	GNSS	GPS, GLONASS	GPS, GLONASS
	Operating System	Windows 10 IoT Enterprise LTSC (64 bit) Windows 11 IoT Enterprise SAC (64 bit) (Optional)	Windows 10 IoT Enterprise LTSC (64 bit) Windows 11 IoT Enterprise SAC (64 bit) (Optional)
	Smart Card Reader	Smart Card Reader (Mutually exclusive with 2 nd LAN)	Smart Card Reader (Mutually exclusive with 2 nd LAN) (Optional)
Mechanical	Dimension	340 x 230 x 38 mm	340 x 230 x 38 mm
	Weight	2.65 kg	2.35 kg
	Cooling System	Fan design	Fan design
Environment	Operating Humidity	10% to 90% RH, non-condensing	10% to 90% RH, non-condensing
	Storage Temperature	-30°C to 70°C	-30°C to 70°C
	Operating Temperature	-20°C to 60°C	-10°C to 50°C
	Vibration	MIL-STD-810H Method 514.8 Procedure I	MIL-STD-810H Method 514.8 Procedure I
	Shock	MIL-STD-810H Method 516.8 Procedure I	MIL-STD-810H Method 516.8 Procedure I
	Drop	MIL-STD-810H Method 516.8, 3 ft	MIL-STD-810H Method 516.8, 3 ft
	IP rating	IP65	IP65
Certification	Certification	CE, FCC	CE, FCC
IO Ports	USB Port	1 x USB 3.0 (Type C) 3 x USB 3.0 (Type A) (One USB-A is mutually exclusive with 2nd LAN)	1 x USB 3.0 (Type C) 3 x USB 3.0 (Type A) (One USB-A is mutually exclusive with 2nd LAN)
	Video	1 x HDMI 4K Output (Optional)	1 x HDMI 4K Output (Optional)
	Serial Port	1 x DB9 (RS232 / RS422 / RS485, software switchable)	1 x DB9 (RS232 / RS422 / RS485, software switchable)
	Audio	1 x Audio combo 3.5mm audio combo jack Dual Digital Mic With Noise Cancellation Dual Speaker	1 x Audio combo 3.5mm audio combo jack Dual Digital Mic With Noise Cancellation Dual Speaker
	LAN	1 x RJ45-10/100/1000 GigaLAN port Optional 2nd LAN (Mutually exclusive with one USB-A & Smart Card Reader)	1 x RJ45-10/100/1000 GigaLAN port Optional 2nd LAN (Mutually exclusive with one USB-A & Smart Card Reader)
	Indicator	4x LED Indicator for Power, Battery, HDD, RF status	2x LED Indicator for Power, Battery
	SIM Card Slot	1 x Nano SIM card slot	1 x Nano SIM card slot
	SD Card Slot	1 x Micro SDXC slot	1 x Micro SDXC slot
Control	Button	1 x Power, 2 x volume key, 2 x Programmable Function Keys QWERTY keyboard with RGB backlight	QWERTY keyboard with backlight
	Front Camera	2MP Front Camera	2MP Front Camera
	Rear Camera	8MP rear camera with autofocus and LED light (Optional)	N/A
Accessory	Accessory	Adapter and Power Cord Standard Battery	Adapter and Power Cord Standard Battery
	Optional Accessory	Spare Battery (Optional) Battery Charger (Optional) Vehicle Charger (Optional)	Spare Battery (Optional) Battery Charger (Optional) Vehicle Charger (Optional)
Power	Power Rating	19V DC	19V DC
	Adapter	100-240V, 50-60Hz / 19V DC	100-240V, 50-60Hz / 19V DC
	Battery	Hot-swappable 2 x 11.55V, typ. 3220 mAh Li-Ion Battery (3S1P)	Hot-swappable 2 x 11.55V, typ. 3220 mAh Li-Ion Battery (3S1P)

Rugged Tablet & Laptop

Why Winmate

AI Ready  
Solution

14" and 15.6"  
Laptop

13.3", 14" and  
15.6" Tablet



15.6 inches

Specifications: L156AD / L156AD-M1



Model Name		L156AD	L156AD-M1
Display	Resolution	1920x1080 3840x2160(4K) (Optional)	1920x1080
	Contrast Ratio	800:1	800:1
	View Angles	85,85,85,85	85,85,85,85
	Size	15.6 inches	15.6 inches
	Panel Brightness	FHD 800 nits 4K 400 nits(Optional)	FHD 800 nits 4K 400 nits(Optional)
	Bonding	Optical Bonding for Sunlight Viewability	Optical Bonding for Sunlight Viewability
System Specification	Processor	Intel Core i5-1235U (up to 4.4GHz) Intel Core i7-1255U (up to 4.7GHz)(Optional)	Intel Core i5-12500H (up to 4.5GHz) Intel Core i7-12700H (up to 4.7GHz) (Optional) Intel Core i9-12900H (up to 5.0GHz) (Optional)
	Storage	256GB M.2 NVMe SSD 512GB M.2 NVMe SSD (Optional) 1TB M.2 NVMe SSD (Optional) 2TB M.2 NVMe SSD (Optional) 2nd storage available with up to 2TB M.2 NVMe SSD (Optional)	256GB M.2 NVMe SSD 512GB M.2 NVMe SSD (Optional) 1TB M.2 NVMe SSD (Optional) 2TB M.2 NVMe SSD (Optional) 2nd storage available with up to 2TB M.2 NVMe SSD (Optional)
	Security	Trusted Platform Module (TPM) 2.0 Kensington Lock	Trusted Platform Module (TPM) 2.0 Kensington Lock
	BT	Support	Support
	WLAN	Support	Support
	Memory	8GB DDR4 SDRAM 16GB DDR4 SDRAM (Optional) 32GB DDR4 SDRAM (Optional)	8+8GB DDR5 SDRAM 16+16GB DDR5 SDRAM (Optional) 32+32GB DDR5 SDRAM (Optional)
	WWAN	4G LTE (Optional)	4G LTE (Optional)
	GNSS	GPS, GLONASS	GPS, GLONASS
	RFID	HF RFID reader 13.56 MHz (Optional)	HF RFID reader 13.56 MHz (Optional)
	Operating System	Windows 10 IoT Enterprise LTSC (64 bit) Windows 11 IoT Enterprise SAC (64 bit) (Optional)	Windows 10 IoT Enterprise LTSC (64 bit) Windows 11 IoT Enterprise SAC (64 bit) (Optional)
	Fingerprint Scanner	Fingerprint scanner (Optional)	Fingerprint scanner (Optional)
	Discrete GPU	-	M1: T1000 MXM Graphic card (Optional) M2: A2000 MXM Graphic card (Optional) M3: A370 MXM Graphic card (Optional)
Mechanical	Dimension	387.6 x 256 x 38.8 mm	387.6 x 256 x 38.8 mm
	Weight	2.8kg	2.8kg
	Cooling System	Fan design	Fan design
Environment	Operating Humidity	10% to 90% RH, non-condensing	10% to 90% RH, non-condensing
	Storage Temperature	-30°C to 70°C	-30°C to 70°C
	Operating Temperature	-20°C to 60°C	-20°C to 60°C
	Vibration	MIL-STD-810H Method 514.8 Procedure I	MIL-STD-810H Method 514.8 Procedure I
	Shock	MIL-STD-810H Method 516.8 Procedure I	MIL-STD-810H Method 516.8 Procedure I
	Drop	MIL-STD-810H Method 516.8, 3 ft	MIL-STD-810H Method 516.8, 3 ft
Certification	IP rating	IP65	IP65
	Certification	CE, FCC	CE, FCC
IO Ports	USB Port	3 x USB 3.0 (Type A) 1 x USB 3.0 (Type C)	3 x USB 3.0 (Type A) 1 x USB 3.0 (Type C)
	Serial Port	1 x RS232 (DB9)	1 x RS232 (DB9)
	Video	1 x HDMI 4K Output (Optional)	1 x HDMI 4K Output (Optional)
	Audio	1 x Audio combo 3.5mm audio combo jack Dual Digital Mic With Noise Cancellation Dual Speaker	1 x Audio combo 3.5mm audio combo jack Dual Digital Mic With Noise Cancellation Dual Speaker
	LAN	2 x RJ45-10/100/1000 GigaLAN port	2 x RJ45-10/100/1000 GigaLAN port
	Indicator	4x LED Indicator for Power, Battery, HDD, RF status	4x LED Indicator for Power, Battery, HDD, RF status
	SIM Card Slot	1 x Nano SIM card slot	1 x Nano SIM card slot
	SD Card Slot	1 x Micro SDXC slot	1 x Micro SDXC slot
Control	Button	1 x Power, 4 x Programmable Function Keys	1 x Power, 4 x Programmable Function Keys
	Front Camera	2MP Front Camera	2MP Front Camera
Accessory	Accessory	Adapter and Power Cord Standard Battery	Adapter and Power Cord Standard Battery
Power	Power Rating	19V DC	19V DC
	Adapter	100-240V, 50-60Hz, 120W / 19V DC	100-240V, 50-60Hz, 230W / 19V DC
	Battery	Hotswappable 2 x 11.55V typ. 3220 mAh Li-Ion Battery (3S1P)	Hotswappable 2 x 11.55V typ. 3220 mAh Li-Ion Battery (3S1P)
	Battery Operating Time	Standard. Battery: 11 hours	Standard. Battery: 11 hours

Rugged Tablet & Laptop

Why Winmate

AI Ready Solution

14" and 15.6" Laptop

13.3", 14" and 15.6" Tablet

15.6 inches

Specifications: L156AD-4KM1



Model Name		L156AD-M1
Display	Resolution	3840x2160(4K)
	Contrast Ratio	800:1
	View Angles	85,85,85,85
	Size	15.6 inches
	Panel Brightness	FHD 800 nits 4K 400 nits(Optional)
	Bonding	Optical Bonding for Sunlight Viewability
System Specification	Processor	Intel Core i5-12500H (up to 4.5GHz) Intel Core i7-12700H (up to 4.7GHz) (Optional) Intel Core i9-12900H (up to 5.0GHz)(Optional)
	Storage	256GB M.2 NVMe SSD 512GB M.2 NVMe SSD (Optional) 1TB M.2 NVMe SSD (Optional) 2TB M.2 NVMe SSD (Optional) 2nd storage available with up to 2TB M.2 NVMe SSD (Optional)
	Security	Trusted Platform Module (TPM) 2.0 Kensington Lock
	BT	Support
	WLAN	Support
	Memory	8+8GB DDR5 SDRAM 16+16GB DDR5 SDRAM (Optional) 32+32GB DDR5 SDRAM (Optional)
	WWAN	4G LTE (Optional)
	GNSS	GPS, GLONASS
	RFID	HF RFID reader 13.56 MHz (Optional)
	Operating System	Windows 10 IoT Enterprise LTSC (64 bit) Windows 11 IoT Enterprise SAC (64 bit) (Optional)
	Fingerprint Scanner	Fingerprint scanner (Optional)
	Discrete GPU	M1: T1000 MXM Graphic card (Optional) M2: A2000 MXM Graphic card (Optional) M3: A370 MXM Graphic card (Optional)
Mechanical	Dimension	387.6 x 256 x 38.8 mm
	Weight	2.8kg
	Cooling System	Fan design
Environment	Operating Humidity	10% to 90% RH, non-condensing
	Storage Temperature	-30°C to 70°C
	Operating Temperature	-20°C to 60°C
	Vibration	MIL-STD-810H Method 514.8 Procedure I
	Shock	MIL-STD-810H Method 516.8 Procedure I
	Drop	MIL-STD-810H Method 516.8, 3 ft
	IP rating	IP65
Certification	Certification	CE, FCC
IO Ports	USB Port	3 x USB 3.0 (Type A) 1 x USB 3.0 (Type C)
	Serial Port	1 x RS232 (DB9)
	Video	1 x HDMI 4K Output (Optional)
	Audio	1 x Audio combo 3.5mm audio combo jack Dual Digital Mic With Noise Cancellation Dual Speaker
	LAN	2 x RJ45-10/100/1000 GigaLAN port
	Indicator	4x LED Indicator for Power, Battery, HDD, RF status
	SIM Card Slot	1 x Nano SIM card slot
	SD Card Slot	1 x Micro SDXC slot
Control	Button	1 x Power, 4 x Programmable Function Keys
	Front Camera	2MP Front Camera
Accessory	Accessory	Adapter and Power Cord Standard Battery
Power	Power Rating	19V DC
	Adapter	100-240V, 50-60Hz, 230W / 19V DC
	Battery	Hotswappable 2 x 11.55V typ. 3220 mAh Lilon Battery (3S1P)
	Battery Operating Time	Standard. Battery: 11 hours

Rugged Tablet & Laptop

Why Winmate

AI Ready  
Solution

14" and 15.6"  
Laptop

13.3", 14" and  
15.6" Tablet



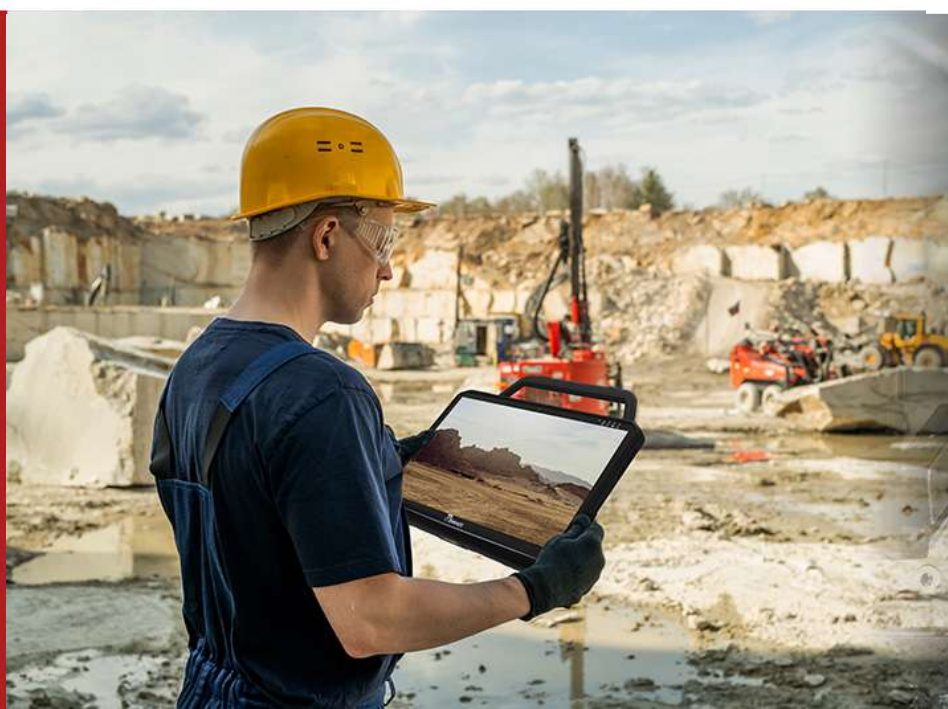
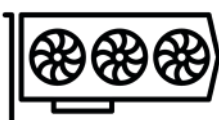
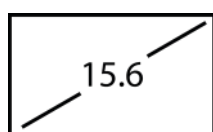




# Unleashing Robust Performance and Durability

13.3", 14" and 15.6" Rugged Tablets  
Product Guide

**4K**  
Ultra HD









# Overview

Winmate's Rugged Tablets in 13.3", 14" & 15" models redefine durability and versatility in challenging environments. These rugged tablets are designed to withstand harsh conditions, making them ideal for industries such as manufacturing, logistics, and field service. With robust build quality, they offer resistance against dust, water, and accidental drops, ensuring reliability in rugged terrains. The rugged tablets feature high-performance specifications, including responsive touchscreens and powerful processors, empowering users to seamlessly execute tasks. The ergonomic design caters to the demands of mobile professionals, while advanced connectivity options enhance operational efficiency. Winmate's Rugged Tablets, available in various sizes, are a testament to the brand's commitment to delivering cutting-edge technology capable of thriving in the most demanding work scenarios.

■ The Winmate rugged tablet provides the convenience of an optional kickstand/ hard handle and various mounting options for easy portability. Designed to endure impact, shock, vibration, liquid spills, and dust, this device has undergone independent testing to meet the IP65 rating and MIL-STD-810 standard.

Equipped with a state-of-the-art docking connector, the Winmate rugged tablet offers extensive connectivity options and multiple interfaces. Featuring Wireless LAN, Bluetooth, and optional 4G/LTE cellular connectivity, it facilitates seamless real-time data exchange.

With a large-screen display incorporating optical bonding technology and an anti-glare coating, the Winmate rugged tablet ensures optimal readability even in sunlight. Enhanced with rain and glove touch capability, the rugged tablet delivers heightened visibility and productivity in challenging environments and situations.

- Large-screen rugged tablet (from 13.3" to 15.6")
- Optical bonding and anti-glare technology for sunlight readability
- IP65 water and dust proof with MIL-STD-810H rugged housing
- Hot-swappable battery for uninterrupted work
- Optional integrated Smart Card Reader

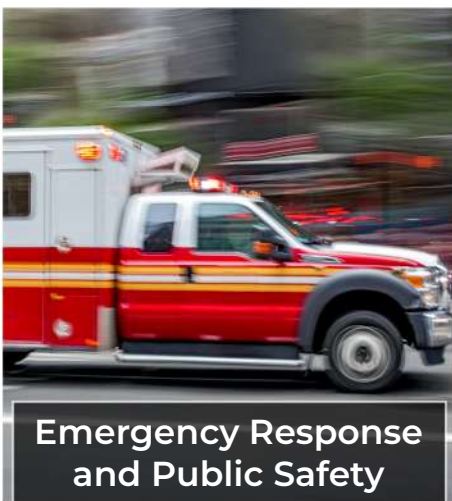


# Application

Winmate's Rugged Tablets are at the forefront of innovation, redefining the landscape of ruggedized technology applications. With their robust design and cutting-edge features, these tablets find extensive utility across various industries, addressing the unique challenges posed by demanding environments.

In logistics and supply chain management, the Rugged Tablets shine in optimizing workflows. The tablets' ability to operate seamlessly in challenging conditions, such as extreme temperatures or wet environments, ensures uninterrupted operations. Equipped with advanced connectivity options, they facilitate real-time tracking, route optimization, and efficient inventory control. Emergency responders also find value in these rugged devices. The tablets' resilience enables them to function in adverse conditions, providing crucial information and communication capabilities during emergencies. The large, readable screens and real-time data exchange options contribute to effective decision-making in high-pressure situations.

Winmate's Rugged Tablets have become indispensable across diverse industries, offering a versatile solution for professionals working in challenging environments. From manufacturing floors to emergency response scenarios, these tablets exemplify durability, functionality, and adaptability, setting a new standard for ruggedized technology applications.



# Success Stories

Rugged Tablet & Laptop

## Empowering Collaborative Robots in Industrial Automation

Collaborative Robot Deployment with Winmate M140TG rugged tablet



### Background

An automotive manufacturer is looking to increase its production efficiency by deploying collaborative robots to handle tasks such as part assembly and inspection. The challenge is to quickly train the robots to perform these tasks and ensure they adapt to various product configurations and quality requirements.



### Core Products

■ M140TG: 14" Intel® Core™ i5-1135G7 Windows Rugged Tablet



### Main Challenges

The traditional method of programming industrial robots is time-consuming and typically carried out by dedicated programmers. Industrial robots are designed for applications that involve long production cycles, where the time invested in programming ultimately pays off. Collaborative robots, on the other hand, require rapid learning to adapt to new processes and tasks. Prolonged downtime for these robots can result in significant financial costs.



### Why Winmate

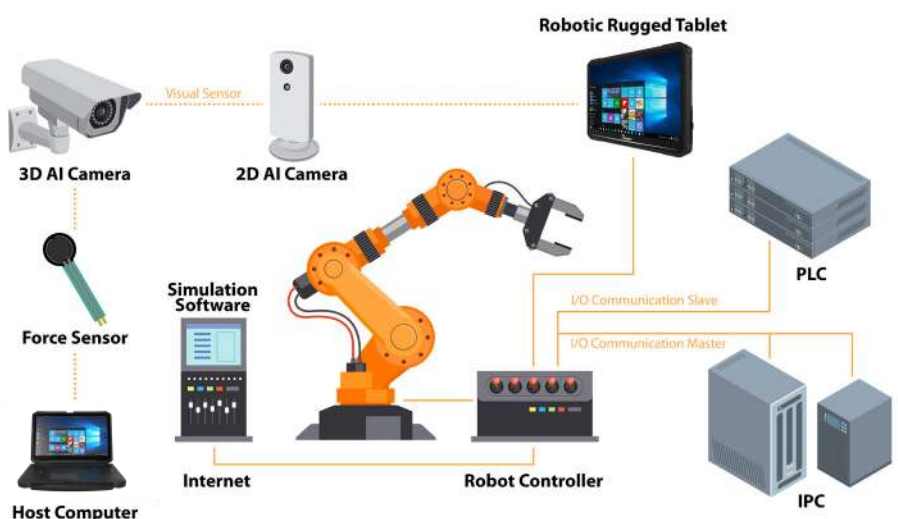
The manufacturer opts for Winmate's M140TG tablets in robot training and control, enabling non-programmer operators to efficiently guide robots through training. These tablets offer real-time visual feedback, ensuring precise part positioning and quality checks. With rapid deployment, reduced downtime, enhanced quality control, and cost savings, the manufacturer benefits from the adaptability and efficiency of Winmate's technology.



M140TG



L156AD





# Service Tablets for Water Utility Maintenance and Management

Winmate 13.3" rugged tablet with reliable technology in every situation

## Background

Amidst rising demand, contamination concerns, and the impacts of global warming, European water companies face the imperative of investing in environmental sustainability and advanced technology. The need for field staff equipped with resilient tech tools is essential, given the challenges of rugged terrain, remote locations, and adverse weather conditions. Operational efficiency is critical for these companies, tasked with maintaining a steady supply of clean water, upgrading infrastructure, and addressing leaks and sewage risks.



Rugged Tablet & Laptop

## Core Products

 M133TG: Intel® Core™ i5-1135G7 Industrial Ultra Rugged Tablet



Why Winmate

## Main Challenges

The focus on repairing leaking pipes demands a significant workforce and advanced technology for timely detection and repair, minimizing non-revenue water loss. Efficient operations not only reduce downtime caused by tool failures but also enhance service reliability, allowing water companies to navigate challenges and deliver seamless services amid growing environmental concerns and population demands.



AI Ready Solution

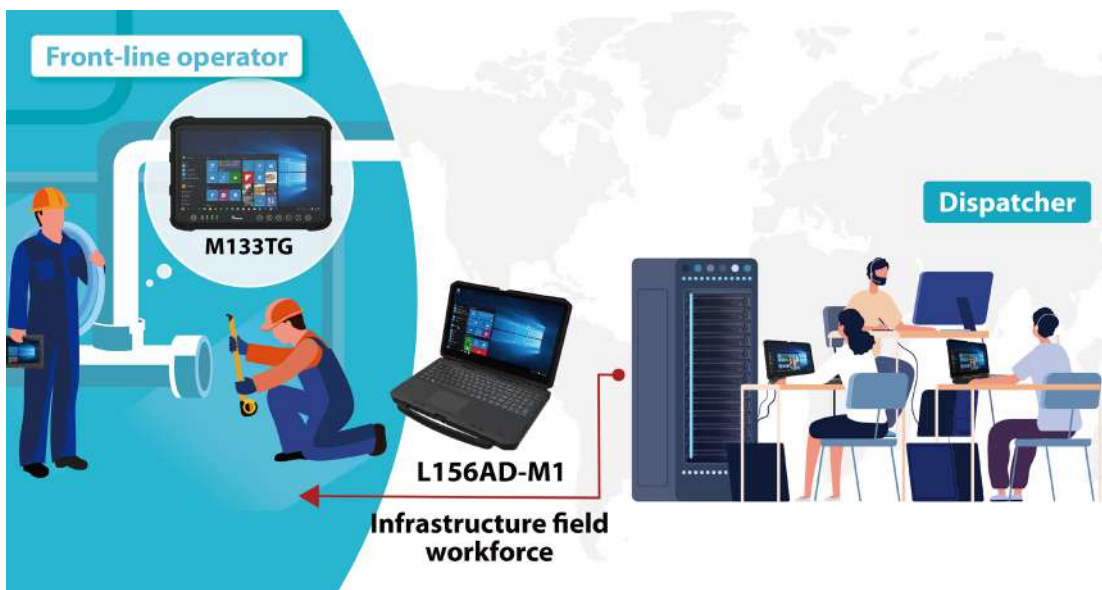
14" and 15.6" Laptop

## Why Winmate

The European water company chose the Winmate mobile computer solutions for the long-term and as the ideal device for use alongside its development program for more intuitive mobile applications. With dedicated accessories, the tablet can be used as a standalone tablet, docked on the desk or vehicle, and many other possibilities. Workable as the primary information, reporting, and communication tool for the teams to carry out maintenance and emergency repairs to their network.



13.3", 14" and 15.6" Tablet



M133TG



L156AD-M1



# Highlights

## 13.3", 14" and 15.6" AI Rugged Tablet

Rugged Tablet & Laptop

### 13.3" Rugged Windows Tablet **M133TG**



- 13.3" 1920 x 1080 IPS wide viewing angle LED Panel
- Intel® Core™ i5-1135G7 Tiger Lake processor
- IP65 waterproof and dustproof

### 13.3" Rugged Windows Tablet **M133WK**



- 13.3" 1920 x 1080 IPS wide viewing angle LED Panel
- Intel® Core™ i5-8265U Whiskey Lake processor
- IP65 waterproof and dustproof

### 14" Rugged Windows Tablet **D140**



- 14-inch Tablet with 1920 x 1080 Display
- Intel® Core™ i5-1235U (12th)
- Projected Capacitive Touch
- Cooling fan design with IP65 waterproof protection

### 14" Rugged Windows Tablet **M140TGT**



- 14-inch tablet, 1920 x 1080 wide viewing angle LED Panel
- 11th Gen. Intel® Processor Family
- IP65 water and dust proof with MIL-STD-810H rugged housing

### 14" Rugged Windows Tablet **M140TG**



- 14-inch tablet, 1920 x 1080 wide viewing angle LED Panel
- 11th Gen. Intel® Processor Family
- IP65 water and dust proof with MIL-STD-810H rugged housing

### 15.6" Rugged Windows Tablet **M156AD**



- 15.6-inch tablet, 1920 x 1080 wide viewing angle LED Panel
- Intel Core i5-1235U
- With graphics card

Why Winmate

AI Ready  
Solution

14" and 15.6"  
Laptop

13.3", 14" and  
15.6" Tablet

13.3 inches

Specifications: M133TG / M133WK



Rugged Tablet & Laptop

Why Winmate

AI Ready  
Solution

14" and 15.6"  
Laptop

13.3", 14" and  
15.6" Tablet

Model Name		M133TG	M133WK
Display	Resolution	1920x1080	1920x1080
	Contrast Ratio	1000:1	1000:1
	View Angles	89,89,89,89	89,89,89,89
	Size	13.3 inches	13.3 inches
	Panel Brightness	500 nits	500.0 nits
	Bonding	Optical Bonding for Sunlight Viewability	Optical Bonding for Sunlight Viewability
System Specification	Processor	Intel Core i5-1135G7 2.4GHz (up to 4.2GHz)	Intel Core i5-8265U 1.6GHz (up to 3.9GHz)
	Storage	128GB SSD Additional storage available with micro SDXC card slot 256GB SSD (Optional) 512GB SSD (Optional) 1TB SSD (Optional) 2TB SSD (Optional)	1 x 128GB M.2 SSD Additional storage available with SDXC card slot Storage 1 up to 1x 1TB M.2 SSD (Optional) Storage 2 up to 1x 1TB M.2 SSD (Optional)
	Security	Trusted Platform Module (TPM) 2.0 Kensington Lock	Trusted Platform Module (TPM) 2.0 Kensington Lock
	BT	Support	Support
	WLAN	Support	Support
	Memory	4GB DDR4 SDRAM 8GB DDR4 SDRAM (Optional) 16GB DDR4 SDRAM (Optional) 32GB DDR4 SDRAM (Optional)	4GB SODIMM DDR4-2400 8GB SODIMM DDR4-2400 (Optional) 16GB SODIMM DDR4-2400 (Optional)
	WWAN	4G LTE (Optional)	4G LTE (Optional)
	GNSS	GPS/GLONASS	GPS/GLONASS (Optional)
	RFID	HF RFID reader 13.56 MHz (Optional)	-
	Operating System	Windows 10 IoT Enterprise LTSC (64 bit) Windows 11 IoT Enterprise SAC (64 bit) (Optional)	Windows 10 IoT Enterprise LTSC (64 bit) Windows 11 IoT Enterprise SAC (64 bit) (Optional)
Mechanical	Dimension	338.2 x 239.8 x 33.8 mm	338.2 x 240 x 30 mm (13.3 x 9.4 x 1.18 inches)
	Weight	2.4 Kg (Without Kickstand), 2.5 Kg (With Kickstand)	2.2 kg
	Cooling System	Fanless thermal design	Fanless thermal design
Environment	Operating Humidity	30% to 80% RH, non-condensing	30% to 80% RH, non-condensing
	Storage Temperature	-20°C to 60°C (-4°F to 140°F)	-20°C to 60°C (-4°F to 140°F)
	Operating Temperature	-10°C to 50°C (14°F to 122°F)	-10°C to 50°C (14°F to 122°F)
	Vibration	MIL-STD-810G Method 514.6 Procedure I	MIL-STD-810G Method 514.6 Procedure I
	Shock	MIL-STD-810G Method 516.6 Procedure I	MIL-STD-810G Method 516.6 Procedure I
	Drop	MIL-STD-810G Method 516.6, 4 ft	MIL-STD-810G Method 516.6, 4 ft
	IP rating	IP65	IP65
Certification	Certification	CE, FCC	CE, FCC
IO Ports	USB Port	3 x USB 3.0 Type A 2 x USB 2.0 Type A 1x USB 3.0 Type C	4 x USB 3.0 Type A 1 x USB 3.0 Type C
	Video	-	1 x Micro HDMI (Optional)
	Audio	2 x 1 watt speaker	2 x 1 watt speaker
	LAN	1 x RJ45-10/100/1000 Mbps LAN	1 x RJ45-10/100/1000 Mbps LAN
	Indicator	4x LED Indicator for Power, Battery, SSD, RF status	4x LED Indicator for Power, Battery, SSD, RF status
	SIM Card Slot	-	1 x Micro SIM card slot
	SD Card Slot	1 x SDXC Slot	1 x SDXC Slot
Control	Docking Connector	1 x Docking Connector	1 x Docking connector
	Button	1 x Power, 1 x Menu, 2 x Volume Key 3 x Programmable Function Keys	1 x Power, 1 x menu, 2 x volume key 3 x Programmable Function Keys
	Rear Camera	8MP Rear Camera with auto-focus and LED light	1 x 8MP Rear Camera with auto-focus and LED light (Optional)
Accessory	Accessory	Adapter and Power Cord Standard Battery Stand with Integrated Handle	Adapter and Power Cord Standard Battery Stylus Stand with Integrated Handle
	Optional Accessory	Vehicle Charger (Optional) Battery Charger (Optional) Desk Docking (Optional)	Vehicle Charger (Optional) Battery Charger (Optional) Desk Docking (Optional)
Power	Power Rating	19V DC	19V DC
	Adapter	100-240V, 50-60Hz / 19V DC	100-240V, 50-60Hz / 19V DC
	Battery	15.4V, typ. 5900 mAh Li-Polymer Battery (4S1P) Hot-Swap (Optional)	15.4V, typ. 5900 mAh Li-Polymer Battery (4S1P)



14.0 inches

Specifications: D140



Model Name		D140
Display	Resolution	1920x1080
	Contrast Ratio	1000:1
	View Angles	89,89,89,89
	Size	14inches
	Panel Brightness	500 nits
System Specification	Processor	12th Intel® Core™ i51235U, 3.3GHz, max 4.4GHz
	Operating System (Optional)	Windows 11 IoT Enterprise LTSC (64 bit)
	Storage	256GB M.2 NVMe SSD
		512GB M.2 NVMe SSD (Optional)
		1TB M.2 NVMe SSD (Optional)
		2TB M.2 NVMe SSD (Optional)
	BT	Support
Mechanical	WLAN	Support
	WWAN	4G LTE (Optional)
	Memory	1 x 8GB SODIMM DDR54800 (up to 32GB)
	Dimension	355.55 x 250.71 x 32.1 mm
	Weight	2.4 Kg (Without Kickstand), 2.5 Kg (With Kickstand)
Environment	Cooling System	Fan design
	Storage Temperature	-20°C to 60°C (-4°F to 140°F)
	Operating Temperature	-10°C to 50°C (14°F to 122°F)
	Vibration	MIL-STD-810G Method 514.6 Procedure I
	Shock	MIL-STD-810G Method 516.6 Procedure I
	Drop	MIL-STD-810G Method 516.6, 4 ft
	IP rating	IP65
Certification	ESD (Contact/Air)	8KV/12KV (contact , Air)
	Certification	CE, FCC
IO Ports	USB Port	4 x USB 3.2 Type A, 2 x USB 3.0 Type C (PD/ALT Mode)
	LAN	1 x RJ4510/100/1000 Mbps LAN
	Indicator	4x LED Indicator for Power, Battery, WiFi, LTE
Control	Button	1 x Power 1 x F1 1 x F2 1 x Key Lock 1 x Keyboard 1 x Home key
Power	Power Rating	19V DC
	Adapter	100-240V, 50-60Hz / 19V DC / Type C
	Battery	10.9V, typ. 6700 mAh, 73.03Wh LiOn Battery (3S2P)
	Battery Operating Time	More than 10 hours (BAPCo TabletMark v3)

Rugged Tablet & Laptop

Why Winmate

AI Ready  
Solution

14" and 15.6"  
Laptop

13.3", 14" and  
15.6" Tablet

14.0 inches

Specifications: M140TG / M140TGT



Rugged Tablet & Laptop

Why Winmate

AI Ready  
Solution

14" and 15.6"  
Laptop

13.3", 14" and  
15.6" Tablet

Model Name		M140TG	M140TGT
Display	Resolution	1920x1080	1920x1080
	Contrast Ratio	800:1	800:1
	View Angles	85,85,85,85	85,85,85,85
	Size	14.0 inches	14.0 inches
	Panel Brightness	700.0 nits	700.0 nits
	Bonding	Optical Bonding for Sunlight Viewability	Optical Bonding for Sunlight Viewability
System Specification	Processor	Intel Core i5-1135G7 2.4GHz (up to 4.2GHz)	Intel Core i5-1135G7 2.4GHz (up to 4.2GHz)
	Storage	128GB SSD Additional storage available with micro SDXC card slot 256GB SSD (Optional) 512GB SSD (Optional) 1TB SSD (Optional) 2TB SSD (Optional)	128GB SSD Additional storage available with micro SDXC card slot 256GB SSD (Optional) 512GB SSD (Optional) 1TB SSD (Optional) 2TB SSD (Optional)
	Security	Trusted Platform Module (TPM) 2.0 Kensington Lock	Trusted Platform Module (TPM) 2.0 Kensington Lock
	BT	Support	Support
	WLAN	Support	Support
	Memory	4GB DDR4 SDRAM 8GB DDR4 SDRAM (Optional) 16GB DDR4 SDRAM (Optional) 32GB DDR4 SDRAM (Optional)	4GB DDR4 SDRAM 8GB DDR4 SDRAM (Optional) 16GB DDR4 SDRAM (Optional) 32GB DDR4 SDRAM (Optional)
	WWAN	4G LTE (Optional) 5G (Optional)	4G LTE (Optional) 5G (Optional)
	GNSS	GPS, GLONASS (Optional)	GPS, GLONASS (Optional)
	RFID	HF RFID reader 13.56 MHz (Optional)	HF RFID reader 13.56 MHz (Optional)
	Operating System	Windows 10 IoT Enterprise (64 bit) Windows 11 IoT Enterprise SAC (64 bit) (Optional)	Windows 10 IoT Enterprise (64 bit) Windows 11 IoT Enterprise SAC (64 bit) (Optional)
	Smart Card Reader	Built-in Smart Card Reader, Comply with ISO7816-1.2.3 T=1 and T=Ø protocol (Optional)	Built-in Smart Card Reader, Comply with ISO7816-1.2.3 T=1 and T=Ø protocol
Mechanical	Dimension	341.91 x 224.67 x 25.4 mm	341.91 x 224.67 x 25.4 mm
	Weight	1.7 kg	1.75 kg
	Cooling System	Fan design	Fan design
Environment	Operating Humidity	10% to 90% RH, non-condensing	10% to 90% RH, non-condensing
	Storage Temperature	-30°C to 70°C (-22°F to 158°F)	-30°C to 70°C (-22°F to 158°F)
	Operating Temperature	-20°C to 60°C (AC mode), -10°C to 50°C (Battery mode)	-20°C to 60°C (AC mode), -10°C to 50°C (Battery mode)
	Vibration	MIL-STD-810H Method 514.8 Procedure I	MIL-STD-810H Method 514.8 Procedure I
	Shock	MIL-STD-810H Method 516.8 Procedure I	MIL-STD-810H Method 516.8 Procedure I
	Drop	MIL-STD-810H Method 516.8, 4 ft	MIL-STD-810H Method 516.8, 4 ft
	IP rating	IP65	IP65
Certification	Certification	CE, FCC	CE, FCC
IO Ports	USB Port	2 x USB 3.0 (Type A) 1 x USB 3.0 (Type-C support Power Delivery 20V In)	2 x USB 3.0 (Type A) 1 x USB 3.0 (Type-C support Power Delivery 20V In)
	Video	1 x Micro HDMI (Optional)	1 x Micro HDMI (Optional)
	Audio	1 x Audio combo 3.5mm audio combo jack Dual Digital Mic With Noise Cancellation Dual Speaker	1 x Audio combo 3.5mm audio combo jack Dual Digital Mic With Noise Cancellation Dual Speaker
	LAN	1 x RJ45-10/100/1000 GigaLAN port	1 x RJ45-10/100/1000 GigaLAN port
	Indicator	4x LED Indicator for Power, Battery, HDD, RF status	4x LED Indicator for Power, Battery, HDD, RF status
	SIM Card Slot	1 x Nano SIM card slot	1 x Nano SIM card slot
	SD Card Slot	1 x Micro SDXC slot	1 x Micro SDXC slot
	Docking Connector	1 x 19-pin Docking Connector	1 x 19-pin Docking Connector
Control	Button	1 x Power 3 x function keys	1 x Power 3 x function keys
	Front Camera	2MP Front Camera	2MP Front Camera
	Rear Camera	8MP Rear Camera with auto-focus and LED light	8MP Rear Camera with auto-focus and LED light
Accessory	Accessory	Adapter and Power Cord Standard Battery Capacitive Stylus	Adapter and Power Cord Standard Battery Capacitive Stylus
	Optional Accessory	Kickstand (Optional) Vehicle Charger (Optional) Battery Charger (Optional) Shoulder Strap (Optional) Carry Bag (Optional)	Kickstand (Optional) Vehicle Charger (Optional) Battery Charger (Optional) Shoulder Strap (Optional) Carry Bag (Optional)
Power	Power Rating	19V DC	19V DC
	Adapter	100-240V, 50-60Hz / 19V DC	100-240V, 50-60Hz / 19V DC
	Battery	Internal Battery: 10.8V typ. 2400 mAh Li-Ion Battery Hot-swappable 11.4V, typ. 3500 mAh Li-Ion Re-chargeable Battery (3S1P)	Internal Battery: 10.8V typ. 2400 mAh Li-Ion Battery Hot-swappable 11.4V, typ. 3500 mAh Li-Ion Re-chargeable Battery (3S1P)

15.6 inches

Specifications: M156AD



Rugged Tablet & Laptop

Why Winmate  
AI Ready  
Solution

14" and 15.6"  
Laptop

13.3", 14" and  
15.6" Tablet

Model Name		M156AD
Display	Resolution	1920x1080
	Contrast Ratio	800:1
	View Angles	85,85,85,85
	Size	15.6 inches
	Panel Brightness	800 nits
	Bonding	Optical Bonding for Sunlight Viewability
System Specification	Processor	Intel Core i51235U (up to 4.4GHz)
	Storage	256GB M.2 NVMe SSD 512GB M.2 NVMe SSD (Optional) 1TB M.2 NVMe SSD (Optional) 2TB M.2 NVMe SSD (Optional) 2nd storage available with up to 2TB M.2 NVMe SSD (Optional)
	Security	Trusted Platform Module (TPM) 2.0 Kensington Lock
	BT	Support
	WLAN	Support
	Memory	8+8GB DDR5 SDRAM 16+16GB DDR5 SDRAM (Optional) 32+32GB DDR5 SDRAM (Optional)
	WWAN	4G LTE/5G(Optional)
	GNSS	GPS, GLONASS
	Operating System	Windows 10 IoT Enterprise LTSC (64 bit) Windows 11 IoT Enterprise SAC (64 bit) (Optional)
	Smart Card Reader	Smart Card Reader
	RFID	HF RFID reader 13.56 MHz (Optional)
	Discrete GPU	M1: T1000 MXM Graphic card M2: A2000 MXM Graphic card (Optional)
Mechanical	Dimension	387.7 x 256.1 x 27 mm
	Weight	2.8kg
	Cooling System	Fan design
Environment	Operating Humidity	10% to 90% RH, non-condensing
	Storage Temperature	-30°C to 70°C
	Operating Temperature	-20°C to 60°C
	Vibration	MIL-STD-810H Method 514.8 Procedure I
	Shock	MIL-STD-810H Method 516.8 Procedure I
	Drop	MIL-STD-810H Method 516.8, 3 ft
	IP rating	IP65
	EMC	MIL-STD-461G CE101, CE102, RE101, RE102, CS118 (Default) MIL-STD-461G CS101, CS114, CS115, CS116, RS101, RS103 (Optional)
Certification	Certification	CE, FCC
IO Ports	USB Port	3 x USB 3.0 (Type A), 1 x USB 3.0 (Type C)
	Serial Port	2 x RJ45-10/100/1000 GigaLAN port
	Video	2 x HDMI 4K Output
	Audio	1 x Audio combo 3.5mm audio combo jack Dual Digital Mic With Noise Cancellation Dual Speaker
	LAN	2 x RJ45-10/100/1000 GigaLAN port
	Indicator	4x LED Indicator for Power, Battery, HDD, RF status
	SD Card Slot	1 x Micro SDXC Slot
	SIM Card Slot	1 x Nano SIM card slot
Control	Button	1 x Power, 4 x Programmable Function Keys
Camera	Front Camera	2MP Front Camera
	Rear Camera	8MP Rear Camera with auto-focus and LED light
Accessory	Accessory	Adapter and Power Cord Standard Battery
	Optional Accessory	Battery Charger (Optional) Kickstand (Optional) Shoulder Strap (Optional)
Power	Power Rating	19V DC
	Adapter	100-240V, 50-60Hz, 230W / 19V DC
	Battery	Hotswappable 2 x 11.55V typ. 3220 mAh Lilon Battery (3S1P)
	Battery Operating Time	Standard. Battery: 11 hours







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