

# M156AD-M1

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



CE









## With discrete GPU

#### **KEY FEATURES**

- 12th generation Intel® Processor Family Alder Lake Processor
- 15.6" FHD Panel resolution with PCAP touch
- Optional discrete Nvidia & Intel Graphic card
- Sunlight readable with antiglare solution
- Hot-swappable battery design
- USB TypeC port support PD 3.0 and ALT mode
- Integrated GigaLAN Port
- MIL-STD-461G and MIL-STD-810H Compliant
- IP65 waterproof and dustproof

#### INTRODUCTION

Winmate M156 Rugged Tablet Series is designed for demanding industrial applications, combining durability, performance, and versatility. Featuring a 15.6" FHD display with PCAP touch and anti-glare technology, it ensures optimal visibility in any lighting condition. Built with IP65-rated protection, MIL-STD-810H compliance, and a hot-swappable battery, it delivers reliable performance in tough environments. Optional advanced graphics capabilities and versatile connectivity options make it ideal for field operations, industrial tasks, and data-intensive applications.

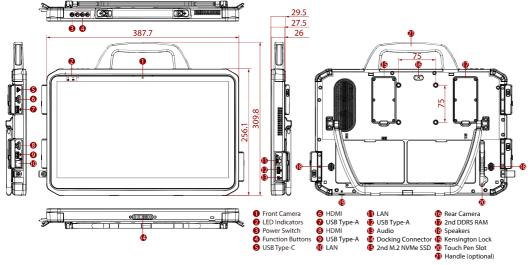
### **SPECIFICATIONS**

Optical Bonding for Sunlight Viewability	Туре	Projected Capacitive Multi Touch
1920x1080	Size	15.6 inches
800:1	Panel Brightness	800.0 nits
85,85,85,85		
ion		
Intel Core i5-1235U (up to 4.4GHz)	Memory	8+8GB DDR5 SDRAM 16+16GB DDR5 SDRAM (Optional) 32+32GB DDR5 SDRAM (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
Windows 10 IoT Enterprise LTSC (64 bit) Windows 11 IoT Enterprise LTSC (64 bit) (Optional)	WLAN	Support
Support	WWAN	4G LTE (Optional) 5G (Optional)
GPS, GLONASS	RFID	HF RFID reader 13.56 MHz (Optional)
Light sensor/ G-sensor / Gyro	Discrete GPU	M3: A370M MXM Graphic card (Optional) M4: A500 MXM Graphic card (Optional)
	1920x1080 800:1 85,85,85,85,85  ion  Intel Core i5-1235U (up to 4.4GHz)  256GB M.2 NVMe SSD 512GB M.2 NVMe SSD (Optional) 1TB M.2 NVMe SSD (Optional) 2TB M.2 NVMe SSD (Optional) 2TB M.2 NVMe SSD (Optional) 2nd storage available with up to 2TB M.2 NVMe SSD (Optional) Windows 10 IoT Enterprise LTSC (64 bit) Windows 11 IoT Enterprise LTSC (64 bit) Support  GPS, GLONASS	1920x1080 Size 800:1 Panel Brightness 85,85,85,85   Ion  Intel Core i5-1235U (up to 4.4GHz) Memory  256GB M.2 NVMe SSD 512GB M.2 NVMe SSD (Optional) 1TB M.2 NVMe SSD (Optional) 2TB M.2 NVMe SSD (Optional) 2TB M.2 NVMe SSD (Optional) Windows 10 IoT Enterprise LTSC (64 bit) Windows 11 IoT Enterprise LTSC (64 bit) (Optional) Support WWAN  GPS, GLONASS RFID



Camera			
Front Camera	2MP Front Camera	Rear Camera	8MP Rear Camera with auto-focus and LED light
Mechanical			
Dimension	387.7 x 256.1 x 27.5 mm	Weight	2.8kg
Cooling System	Fan Design		
IO Ports			
USB Port	3 x USB 3.0 (Type A), 1 x USB 3.0 (Type C)	SD Card Slot	1 x Micro SDXC Slot
SIM Card Slot	1 x Nano SIM card slot	Video	2 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	2x LED Indicator for Power, Battery		
Environment			
Operating Humidity	10% to 90% RH, non-condensing	Operating Temperature	-20°C to 60°C
Storage Temperature	-30°C to 70°C	Shock	MIL-STD-810H Method 516.8 Procedure I
Vibration	MIL-STD-810H Method 514.8 Procedure I	IP rating	IP65
Drop	MIL-STD-810H Method 516.8, 3 ft	EMC	MIL-STD-461G CE101, CE102, RE101, RE102, CS118 (Default) MIL-STD-461G CS101, CS114, CS115, CS116, RS101, RS103 (Optional)
Certification			
Certification	CE, FCC		
Security Function			
SOTI MobiControl	SOTI MobiControl Compliance	Kensington Lock	Kensington Lock Support
Control			
Button	1 x Power, 3 x Programmable Function Keys		
Power			
Battery	Hotswappable 2 x 11.55V typ. 3220 mAh Lilon Battery (3S1P)	Battery Operating Time	Standard. Battery: 11 hours
Power Rating	19V DC	Adapter	100-240V, 50-60Hz, 230W / 20V DC
Accessory			
Accessory	Adapter and Power Cord Capacitive Stylus Standard Battery	Optional Accessory	Spare Battery (Optional) Battery Charger (Optional) Handle (Optional)

#### **DIMENSIONS** UNIT:MM



#### **NOTE**

- 1. This is a simplified drawing and some components are not marked in detail.
- 2.Please contact our sales representative if you need further product information.
- 3.All specifications are subject to change without prior notice.

   4.The product shown in this datasheet is a standard
- model.For diagrams that contain customized or optional I/O, please contact the Winmate Sales Team for more information.