L156AD-M1

15.6inch Rugged Laptop with Intel® Raptor Lake Processor



KEY FEATURES

- 13th generation Intel® Processor Family Raptor Lake Processor
- 15.6" 4K Panel resolution with PCAP touch
- Optional discrete Nvidia Graphic card
- 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 and A2000 Graphic Cards









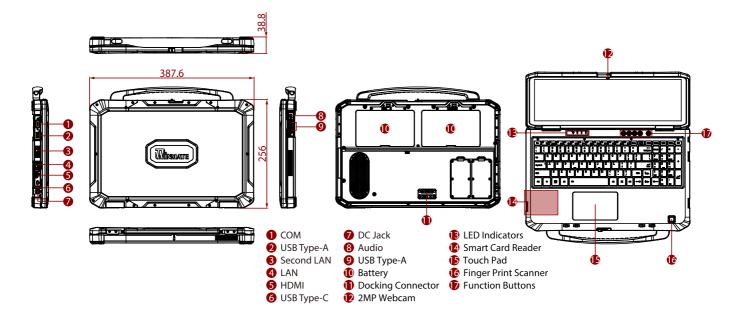
SPECIFICATIONS

Display					
Bonding	Optical Bonding for Sunlight Viewability	Туре	Projected Capacitive Multi Touch		
Resolution	1920x1080 3840x2160(4K) (Optional)	Size	15.6 inches		
Contrast Ratio	800:1	Panel Brightness	800 nits 400 nits(Optional)		
View Angles	85,85,85,85				
System Specification					
Processor	Intel Core i7-13700H (up to 5.0GHz) Intel Core i9-13900H (up to 5.4GHz) (Optional)	Memory	8+8GB DDR5 SDRAM 16+16GB DDR5 SDRAM (Optional) 32+32GB DDR5 SDRAM (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		
Operating System	Windows 10 IoT Enterprise LTSC (64 bit) Windows 11 IoT Enterprise SAC (64 bit) (Optional)	WLAN	Support		
ВТ	Support	WWAN	4G LTE (Optional)		
GNSS	GPS, GLONASS	RFID	HF RFID reader 13.56 MHz (Optional)		
Smart Card Reader	Smart Card Reader	Fingerprint Scanner	Fingerprint scanner (Optional)		
Discrete GPU	M1: T1000 MXM Graphic card				
	M2: A2000 MXM Graphic card (Optional)				
Camera					
Front Camera	2MP front camera				
Mechanical					
Dimension	387.6 x 256 x 38.8 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)	Serial Port	1 x RS232 (DB9)		
SD Card Slot	1 x Micro SDXC Slot	SIM Card Slot	1 x Nano SIM card slot		

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
Environment			
Operating Humidity	10% to 90% RH, non-condensing	Operating Temperature	-20°C to 60°C (AC mode), 0°C to 50°C (Battery mode)
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, 4 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 / 19V DC

DIMENSIONS UNIT:MM

Accessory



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.

Adapter and Power Cord

Standard Battery

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.