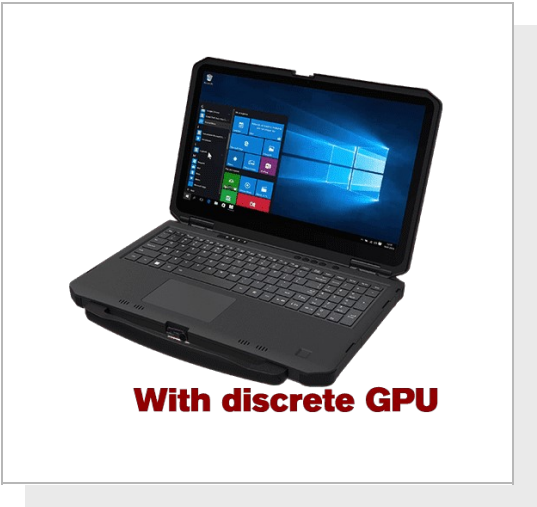


L156AD-M1

15.6inch Rugged Laptop with Intel® Raptor Lake Processor



KEY FEATURES

- 13th generation Intel® Processor Family – Raptor Lake Processor
- 15.6" FHD 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

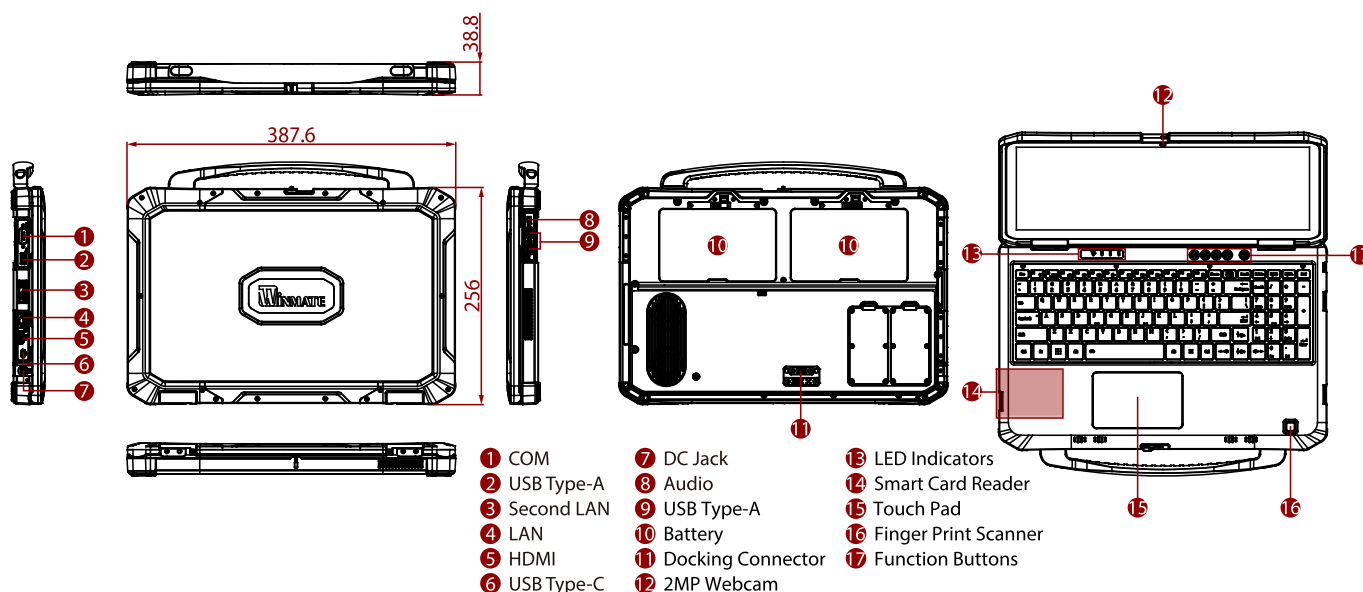


SPECIFICATIONS

Display			
Bonding	Optical Bonding for Sunlight Viewability	Type	Projected Capacitive Multi Touch
Resolution	1920x1080	Size	15.6 inches
Contrast Ratio	800:1	Panel Brightness	800.0 nits
View Angles	85,85,85,85		
System Specification			
Processor	Intel Core i5-12500H (up to 4.5GHz) Intel Core i7-13700H (up to 5.0GHz) (Optional) 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
BT	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 DB9 (RS232 / RS422 / RS485, software switchable)
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

LAN		2 x RJ45-10/100/1000 GigaLAN port	Indicator	Dual Digital Mic With Noise Cancellation Dual Speaker 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
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
Accessory				
Accessory	Adapter and Power Cord Standard Battery			

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.