

L156AD

15.6inch Ultra Rugged Laptop with Intel® Alder Lake Processor













KEY FEATURES

- 12th generation Intel® Processor Family Alder Lake Processor
- 15.6" FHD 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

INTRODUCTION

Winmate L156 Series Rugged Laptop is a high-performance solution for professionals working in demanding environments. Powered by Intel® Alder Lake processors, it features a 15.6" FHD or optional 4K display with PCAP touch and anti-glare technology for sunlight readability. With a magnesium alloy enclosure, IP65-rated protection, and dual hot-swappable batteries, it ensures durability and all-day productivity. Optional NVIDIA and Intel GPU support makes it ideal for graphics-intensive tasks, from industrial applications to field operations.

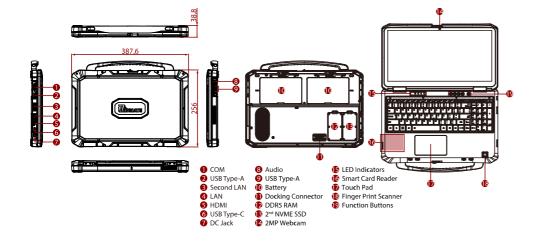
SPECIFICATIONS

Display				
Bonding	Optical Bonding for Sunlight Viewability	Туре	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 i5-1235U (up to 4.4GHz) Intel Core i7/i9 Processor (Optional)	Memory	8GB DDR5 SDRAM 16GB DDR5 SDRAM (Optional) 32GB DDR5 SDRAM (Optional) 2nd RAM available with up to 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) 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 11 IoT Enterprise LTSC (64 bit) Windows 10 IoT Enterprise LTSC (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)	
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	1 x USB 3.0 (Type C with ALT, PD function) 3 x USB 3.0 (Type A)	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 Dual Digital Mic With Noise Cancellation Dual Speaker
LAN	2 x RJ45-10/100/1000 GigaLAN port	Indicator	4x LED Indicator for Power, Drive, Battery1, Bttery2
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, 120W / 19.5V DC
Accessory			
Accessory	Adapter and Power Cord Standard Battery	Optional Accessory	Spare Battery (Optional) Battery Charger (Optional) Vehicle Charger (Optional)

DIMENSIONS UNIT:MM



NOTE

- 1. This is a simplified drawing and some components are not marked in detail.
- Please contact our sales representative if you need further product information.
 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.