

L156AD-4KM1 15.6inch Ultra Rugged Laptop with Intel(R) Alder Lake Processor

Manufacturer part number: L156AD-4KM1 | Rugged Laptop



With discrete GPU

Explore Winmate L156AD-4KM1, an industrial computer solution featuring Intel(R) Processor Family, 15.6-inch form factor, IP65 for industrial automation and...

Display	
Size	15.6 inches
Type	Projected Capacitive Multi Touch
Resolution	3840x2160
Panel Brightness	400.0 nits
Contrast Ratio	800:1
View Angles	85,85,85,85
Bonding	Optical Bonding for Sunlight Viewability
System Specification	
Processor	Intel Core i7-12700H (up to 4.7GHz) (Default), Intel Core i9 Processor (Optional)
Memory	8+8GB (Default), 16+16GB (Optional), 32+32GB (Optional)
Storage	128GB SSD (Default), 256GB SSD (Optional), 512GB SSD (Optional), 1TB SSD (Optional), 2TB SSD (Optional), 2nd storage available with up to 2TB SSD (Optional)
Smart Card Reader	Smart Card Reader
Security	Trusted Platform Module (TPM) 2.0, Kensington Lock
Operating System	Windows 11 IoT Enterprise LTSC (64 bit) (Default), 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)
Fingerprint Scanner	Fingerprint scanner (Optional)
Discrete GPU	M1: A1000 MXM Graphic card (Optional), M2: A2000 MXM Graphic card (Optional), M3: A500 MXM Graphic card (Optional)
Camera	
Front Camera	2MP front camera
Mechanical	
Dimension	387.6 x 256 x 38.8 mm

Weight	3.8 kg
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)
LAN	2 x RJ45-10/100/1000 GigaLAN port
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
SD Card Slot	1 x Micro SDXC Slot
SIM Card Slot	1 x Nano SIM card slot
Indicator	4x LED Indicator for Power, Drive, Battery1, Bttery2
Environment	
Operating Humidity	10% to 90% RH, non-condensing
Operating Temperature	-29 deg C to 63 deg C
Storage Temperature	-30 deg C to 70 deg C
Shock	USA: MIL-STD-810H Method 516.8 Procedure I (Default), NATO: STANAG 4370/AECTP400 Edition 3 Method AECTP 402-Procedure I (Optional)
Vibration	USA: MIL-STD-810H Method 514.8 Procedure I (Default), NATO: STANAG 4370/AECTP400 Edition 3 Method AECTP 401-Procedure I (Optional)
Drop	USA: MIL-STD-810H Method 516.8 Procedure IV, 4 ft (Default), NATO: STANAG 4370/AECTP400 Edition 3 Method AECTP 404 - Procedure II, 4 ft (Optional)
IP rating	IP65
EMC	USA:, MIL-STD-461G CE101, CE102, RE101, RE102, CS118(Default), MIL-STD-461G CS101, CS114, CS115, CS116, RS101, RS103 (Optional), MIL-STD-461G RE102 Ground Army Grade (Optional), NATO:, STANAG 4370/AECTP501 NCE01, NCE02, NRE01, NRE02, NCS12(Default), STANAG 4370/AECTP501 NCS01, NCS07, NCS08, NCS09, NRS01, NRS02 (Optional), STANAG 4370/AECTP501 NRE02-2 Land Environment (Optional)
TEMPEST	USA: NSA NSTISSAM TEMPEST/192 (Optional), NATO: SDIP27 (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	Hot-swappable 2 x 11.55V typ. 3220 mAh Li-Ion Battery (3S1P)
Battery Operating Time	Standard. Battery: 11 hours
Power Rating	19V DC
Adapter	100-240V, 50-60Hz, 240W / 20V DC
Accessory	
Accessory	Adapter and Power Cord, Standard Battery
Optional Accessory	Spare Battery (Optional), High Capacity Battery (Optional), Vehicle Charger (Optional), Carry Bag (Optional)