L140AD-3

13.3-inch Ultra Rugged Laptop with Intel® Core™ i5-1235U

CE
FC
IC
IP65
COMPLIANT MIL-STD 461G
COMPLIANT MIL-STD 810H

KEY FEATURES

- 12th Gen. Intel® Processor Family – Alder Lake Processor
- 13.3" 1920 x 1080 LED panel with direct optical bonding laptop
- Antiglare technology for sunlight readability
- Dual battery with hotswappable design for wholeday work
- Magnesium alloy enclosure with double injection for drop protection
- Integrated smart card reader or 2nd GigaLAN port

INTRODUCTION

Winmate rugged laptops deliver unmatched performance, durability, and reliability for industries operating in extreme environments. As the global market leader, Winmate ranks as the #1 supplier in rugged laptops and rugged tablets, providing advanced rugged computing solutions trusted by enterprises and government agencies worldwide.

SPECIFICATIONS

Display

Resolution	1920x1080	Size	13.3 inches
Contrast Ratio	1000:1	Panel Brightness	500.0 nits
View Angles	89,89,89,89	Bonding	Optical Bonding for Sunlight Viewability
Type	Projected Capacitive Multi Touch		

System Specification

Processor	Intel Core i5-1235U (up to 4.4GHz)	Memory	8GB DDR5 SDRAM 16GB DDR5 SDRAM (Optional) 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 11 IoT Enterprise LTSC (64 bit) Windows 10 IoT Enterprise LTSC (64 bit) (Optional)	WLAN	Support
BT	Support	WWAN	4G LTE (Optional) 5G (Optional)
GNSS	GPS, GLONASS	RFID	HF RFID reader 13.56 MHz (Optional)
Smart Card Reader	Smart Card Reader (Mutually exclusive with 2nd LAN)	Fingerprint Scanner	Fingerprint scanner (Optional)

Camera

Front Camera	2MP front camera

Mechanical

WINMATE

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Tel: +886-2-8511-0288
Website: www.winmate.com

Revised:V.251120.260120

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Dimension	340 x 230 x 38 mm	**Weight**	2.65 kg
Cooling System	Fan Design		

IO Ports

USB Port	1 x USB 3.0 (Type C) 3 x USB 3.0 (Type A) (One USB-A is mutually exclusive with 2nd LAN)	**Serial Port**	1 x DB9 (RS232 / RS422 / RS485, switchable with optional software)
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	1 x RJ45-10/100/1000 GigaLAN port 2nd LAN (Mutually exclusive with one USB-A & Smart Card Reader) (Optional)	**Indicator**	3x LED Indicator for Power, Battery, Capslock 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**	USA: MILSTD810H Method 516.8 Procedure I NATO: STANAG 4370/AECTP400 Edition 3 Method AECTP 402– Procedure I
Vibration	USA: MILSTD810H Method 514.8 Procedure I NATO: STANAG 4370/AECTP400 Edition 3 Method AECTP 401– Procedure I	**IP rating**	IP65
Drop	USA: MIL-STD-810H Method 516.8, 4 ft NATO: STANAG 4370/AECTP400 Edition 3 Method AECTP 404 – Procedure II, 4 ft	**EMC**	USA: MIL-STD-461G CE101, CE102, RE101, RE102, CS118 MIL-STD-461G CS101, CS114, CS115, CS116, RS101, RS103 (Optional) MIL-STD-461G RE102 Ground Army Grade NATO: STANAG 4370/AECTP501 NCE01, NCE02, NRE01, NRE02, NCS12 (Optional) 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, 2 x volume key, 2 x Programmable Function Keys QWERTY keyboard with RGB backlight

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 / 19V DC

Accessory

Accessory	Adapter and Power Cord Standard Battery	**Optional Accessory**	Spare Battery (Optional) Battery Charger (Optional) Vehicle Charger (Optional) Carry Bag (Optional)

DIMENSIONS UNIT:MM

NOTE

/ Disclaimer /

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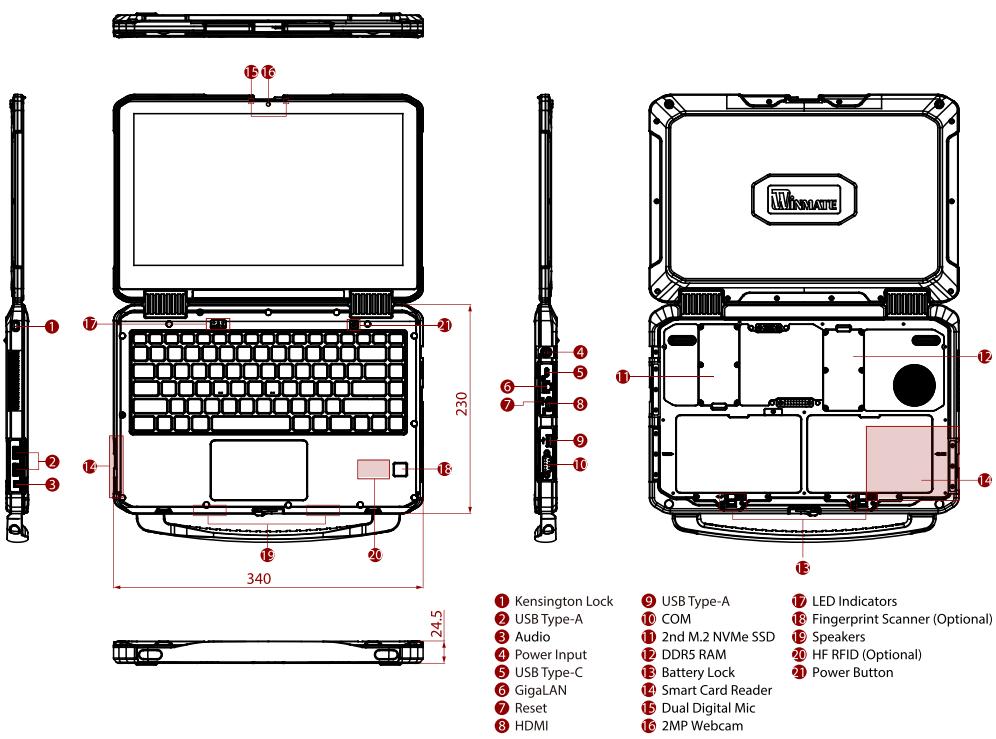
1. Accessories and Integrated Options may vary depending on your configuration.
2. Total usable memory and storage will be less dependent upon actual system configuration.
3. The actual transfer speed will vary depending on many factors including the processing speed of the host device, file attributes, and other factors related to the system configuration and your operating environment.
4. The USB Type¬C connector follows USB 3.0 standard, which does not support Alternate Mode (ALT) or USB Power Delivery (USB¬PD).
5. The battery life is measured at dimming LCD brightness. Varies depending on the usage conditions, or when an external device is attached.
6. The 2D drawing is simplified drawing and some components are not marked in detail.
7. Length measurements do not include protrusions. Weight varies with options.
8. TPM 2.0 available upon request.
9. SOTI is available upon request.
10. 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.

❶ Kensington Lock	❾ USB Type-A	⓱ LED Indicators
❷ USB Type-A	❿ COM	⓲ Fingerprint Scanner (Optional)
❸ Audio	⓫ 2nd M.2 NVMe SSD	⓳ Speakers
❹ Power Input	⓬ DDR5 RAM	⓴ HF RFID (Optional)
❺ USB Type-C	⓭ Battery Lock	㉑ Power Button
❻ GigaLAN	⓮ Smart Card Reader	
❼ Reset	⓯ Dual Digital Mic	
❽ HDMI	⓰ 2MP Webcam	