

M156AD-M1

15.6" Windows Rugged Tablet PC with Intel® Core™ i5-1235U



KEY FEATURES

- 12th generation Intel® Processor Family - Alder Lake Processor
- 15.6" FHD Panel resolution with PCAP touch
- Optional discrete Nvidia & Intel Graphic card
- Sunlight readable with antiglare solution
- Hot-swappable battery design
- USB TypeC port support PD 3.0 and ALT mode
- Integrated GigaLAN Port
- MIL-STD-461G and MIL-STD-810H Compliant
- IP65 waterproof and dustproof

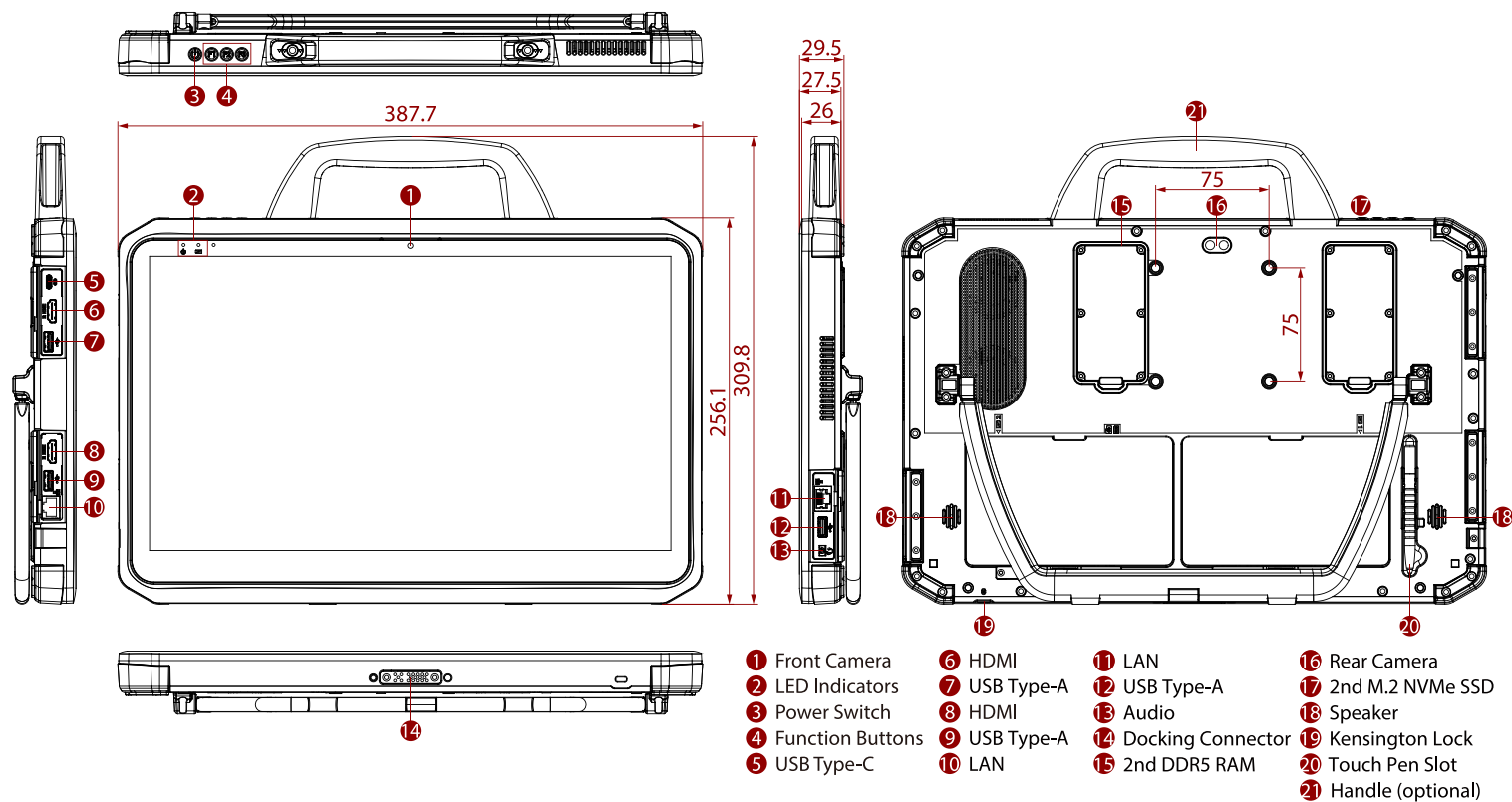


SPECIFICATIONS

| 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 i5-1235U (up to 4.4GHz) | 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 LTSC (64 bit) (Optional) | WLAN | Support |
| BT | Support | WWAN | 4G LTE (Optional) 5G (Optional) |
| RFID | HF RFID reader 13.56 MHz (Optional) | Sensors | Light sensor/ G-sensor / Gyro |
| Discrete GPU | M1: A500 MXM Graphic card (Optional) M2: A370 MXM Graphic card (Optional) | | |
| Camera | | | |
| Front Camera | 2MP Front Camera | Rear Camera | 8MP Rear Camera with auto-focus and LED light |
| Mechanical | | | |
| Dimension | 387.7 x 256.1 x 27.5 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) | SD Card Slot | 1 x Micro SDXC Slot |
| SIM Card Slot | 1 x Nano SIM card slot | Video | 2 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 | 2x LED Indicator for Power, Battery | Docking Connector | 1 x 19-pin docking connector |
| 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, 3 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 / 19V DC |
| Accessory | | | |
| Accessory | Adapter and Power Cord Capacitive Stylus Standard Battery | Optional Accessory | Spare Battery (Optional) Battery Charger (Optional) Handle (Optional) |

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.