



IN156R Rugged Laptop

Extreme Durability, Anywhere, Anytime

Core Configuration Highlights

- **"Sunlight Readable" Display:**
15.6-inch optically bonded display with 1000 nits peak brightness, ensuring clear visibility under intense outdoor sunlight; optional capacitive multitouch for flexible operation.
- **"AI Empowered" Processor:**
Powered by the latest Intel® Core™ Ultra 7 255H processor with integrated AI engine (up to 5.10 GHz), or optional Intel® Core™ Ultra 7 250H processor, intelligently accelerating multitasking and AI-driven applications.
- **"Professional Graphics" Performance:**
Powered by NVIDIA® GeForce® RTX 4060M GPU, smoothly handling professional scenarios like 3D modeling and video rendering.
- **"All-day" Battery Life:**
Dual 60Wh hot-swappable batteries, enabling uninterrupted power supply and eliminating downtime in field operations.
- **"Infinite Expansion" Modular Design:**
Innovative docking station and modular interface design, the product supports optional on-demand expansion (including HDD, 5G modules, etc.), enabling users to build a highly customized workstation.
- **"Rugged Input" Keyboard:**
IP65-rated waterproof LED backlit membrane keyboard with a fully sealed structure and FN shortcuts, allowing stress-free operation in low-light environments.



Application scenarios

IN156R Specifications

Operating System  Windows 11

CPU Intel® Core™ Ultra 7 Processor 255H 24M Cache, up to 5.10 GHz
Optional: Intel® Core™ Ultra 7 Processor 250H 24M Cache, up to 5.4 GHz

GPU Intel® Iris® Xe Graphics eligible 1.50 GHz
Optional: NVIDIA® GeForce® RTX4060M 8G

Memory 16GB/32GB DDR5
Max Optional:64G

Storage Optional:128GB/256GB/512GB/1TB/2TB/4TB/8TB (Gen4*4 NVME)
Optional: Disk Wiper

Display 15.6" FHD (1920x1080)
1,000 nits sunlight readable display with optical bonding,supports capacitive multi-touch screen
Optional:
15.6" LCD (1920 x1080)
1,000 nits sunlight readable display with optical bonding (work in-40°C)
with capacitive multi-touch screen

Keyboard Waterproof LED backlit membrane keyboard with FN shortcut functions

Communications 1000M Ethernet
Intel® Wi-Fi 6 802.11ax (removable)
Bluetooth (v5.2) (removable)
4G LTE mobile broadband (removable)
Standard precision GNSS(GPS、GLONASS、Galileo) (On board)

I/O Interfaces Thunder 4*2
USB 3.0 port * 2
Ethernet (RJ45) * 2
COM*1+VGA*1 (Optional; 2*COM)
HDMI 2.1 port (type A)*1
Audio in/out (combo jack) *1
Grounding Post*1
Custom aviation connector *1

Power Input voltage: AC100V~240V, 60/50Hz,
Output voltage: DC19V, 9.47A
Battery capacity 1: 60Wh, (pluggable)
Battery capacity 2: 60Wh, (pluggable)

Environment Temperature:
- Operating: -20°C to 55°C (Customizable: -40°C to 55°C)
- Storage: -40°C to 70°C (Customizable: -50°C to 70°C)
Humidity:5%- 95% RH, non-condensing

Dimension (W x D x H) With bumpers 406 × 304 × 50.3 mm
Without bumpers: 400 × 266 × 44.3 mm

Chassis Characteristics

• **"All-Scenario" Certifications:**

Designed to meet MIL-STD-810H requirements (24 test items), including resistance to high/low temperature, humidity, vibration, drop, salt mist, and mold.

• Meets ESD protection standards with ±8kV contact discharge and ±15kV air discharge capability.

• IP65 dust and water resistance, fearless against extreme environmental challenges.

Product Positioning

Crafted for professional domains such as outdoor exploration, industrial fieldwork, emergency response, and specialized fields, redefining the performance and reliability boundaries of mobile workstations.

