



IN175 Fully Rugged Laptop

The Ultimate Industrial-Grade
Expandable Mobile Workstation

Core Configuration Highlights

- **"Sunlight Readable" Display:**
17.3-inch optically bonded display with 800 nits peak brightness, ensuring clear visibility under intense outdoor sunlight; optional capacitive multitouch for flexible operation.
- **"AI Empowered" Processor**
Equipped with 10th Gen Intel® Core™ i7 processors featuring an integrated AI engine to intelligently accelerate multitasking and AI applications.
- **"Professional Graphics" Performance:**
Powered by NVIDIA® GeForce RTX™ 4060 GPU 8GB, smoothly handling professional scenarios like 3D modeling and video rendering.
- **"All-day" Battery Life:**
Dual battery system with hot-swappable main battery, enabling uninterrupted power supply and eliminating range anxiety.
- **"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:**
IP66-rated waterproof LED backlit membrane keyboard with a fully sealed structure and FN shortcuts, allowing stress-free operation in low-light environments.



Application scenarios

IN175 Specifications

Operating System Windows 10 / Windows 11

CPU Intel® Core™ i7-10750H Processor (12M Cache, up to 5.00 GHz) FC-BGA14F, Tray
Processor Base Frequency 2.60 GHz

GPU Intel® UHD Graphics for 10th Gen Intel® Processors
Optional NVIDIA® GeForce RTX™ 4060 GPU 8GB

Memory RAM 16GB (SO-DIMM*2)
Optional: 8GB /16G/32G/64G/128G(Max)

Storage SSD1: 1TB, optional 128GB/256GB/2TB NVMe
SSD2: 1TB, optional 128GB/256GB/2TB NVMe (optional GPS module)
Storage 3/4: 2.5-inch SATA SSD, 128GB/256GB/1TB/4TB ×2

Display 17.3" FHD (1920×1080)
800 nits sunlight readable display with optical bonding, supports 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 USB 3.0 port * 4
10/100/1000 Ethernet (RJ45) * 2
DB2 (RS232/RS422/485) *1(choose by BIOS)
DB1 (RS232)*1
HDMI 2.1 port (type A)*1
DC-In jack*1
SIM Card*1
3.5mm headphone/microphone jack*1
Grounding Post*1
Custom aviation connector *1

Power

AC adapter : 100-240V, 50Hz-60Hz, 183W
Main battery capacity: 155Wh, (pluggable)
optional 184.3Wh (work in -40°C)
Auxiliary battery capacity: 13Wh (non-removable)

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) & Weight

445mm*326.8mm*46.5mm,
Mg-al material 4.5kg

Chassis Characteristics

• "Lightweight & Rugged" Build:

Magnesium-aluminum alloy unibody construction; a lightweight design at only 4.5kg that balances portability with durability.

• "All-Scenario" Certifications:

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

o Designed to meet MIL-STD-461G requirements for electromagnetic compatibility.

• IP66 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.

