LITE-RUGGED LAPTOP ML15

Durability Meets Mobility

- Powered by the Intel® Core™ i5-11500H processor, offering for seamless multitasking and enhanced productivity.

- Expandable performance through discrete GPUs, delivering advanced processing power ideal for peak-performance computing tasks.

- Features a 15.6" FHD display with a high brightness of 1000 nits, ensuring perfect readability even in outdoor environments.

- Provides upgradeable memory and storage expansion options for effortless system enhancements.

- Compliant with MIL-STD-810H, yet equipped with a lightweight chassis for portability and reliable operation under harsh conditions.

- Configurable with flexible connectivity options and a user-removable Flex Bay, boosting versatility and functionality.

- Upgradable with an optional MIL-STD-461G (Ground Navy) EMC solution for advanced reliability.

CE | FC | UKCA | | WEEE | REACH | RoHS | POPs Free | MIL-STD-461G | MIL-STD-810H | IP53

LITE-RUGGED LAPTOP ML15

Items	Descriptions
Platform	– Intel® Tigerlake-H Platform
Operation System	– Windows 11 IoT
Processor	– Intel® Core™ i5-11500H Processor – 6 Cores, 12MB Cache, up to 4.6GHz – Support vPro®
Graphic	– Intel® UHD Graphics **Optional:** –MXM Discrete Graphic Card NVIDIA® RTX A1000[1]
Display	– 15.6" (1920 x 1080) LCD – Optical Bonding – Brightness: 1000 nits[2] **Optional:** – Capacitive Multi-Touch Screen
Memory[3,4]	– **1st**: 8GB DDR4-3200 x 1 **Optional:** – **1st**: 16GB/32GB DDR4-3200 x 1 – **2nd**: 8GB/16GB/32GB DDR4-3200 x 1
Storage	– **1st**: 256GB M.2 2280 PCIe 3.0 SSD (Kit)[3] **Optional:** – **1st**: 512GB/1TB M.2 2280 PCIe 3.0 SSD (Kit)[3] – **2nd**: 256GB/512GB/1TB M.2 2242 PCIe 4.0 SSD – **3rd**: 256GB/512GB/1TB 2.5" SATAIII SSD (Flex Bay)[3]
Audio	– HD Audio and Stereo Speakers – Embedded Digital Mic
Camera	– 5MP Webcam, with Camera Cover and Indicator
Sensor	– Ambient Light Sensor
Keyboard	– 86-key with Backlight
Touchpad	– Capacitive Touchpad with Left/Right Clicks
Button	– Power Button
LED Indicator	– Power: System ON/ S3 (Green/ Breathing Green) – SSD in Use (Flashing Green) – Battery: Charging/ Low (Orange/ Flashing Orange)
Security	– TPM 2.0
Case	– Engineering Plastic/ Aluminum Alloy
Color	– Black
Environmental Specifications	– Operating Temperature: -10°C[5] ~ +60°C[6] – Storage Temperature: -40°C ~ +70°C
Dimensions[7]	– 392 x 282 x 43mm (with bumpers)
Weight[7]	– Approximately 3.3 kg

Power	
Primary Battery[3,10]	– Standard Battery Pack BMLF3A: Li-Ion 10.905V/6000mAh

Input Power	– Fast Charging via Type-C
	  – 60W~100W
	– DC-in
	  – 19V

Wireless & Communications	
LAN	– 2.5G base-T Ethernet
WLAN/ Bluetooth®	– Intel® Wi-Fi 6E AX210 (802.11ax) – Bluetooth® 5.3
GNSS	**Optional:** – GPS/GLONASS/Galileo/Beidou

I/O Interfaces	
Left	– Audio In/Out Combo x 1 – Thunderbolt™ 4 Type-C x 1 (Full function) – USB 3.2 Gen.2 Type-A x 2 – 1st LAN RJ45 x 1 – SD Card Reader x 1 – SIM Card Slot[11] x 1 – Primary Battery Slot x 1

Right	– DC-in x 1
	Optional:
	– 2nd Battery Slot x 1
	– Flex Bay Slot
	  – User-removable Type
	    – Express Card 34/54
	    – SATA ODD
	    – 3rd Storage 2.5" SATAIII SSD
	  – Non-user-removable Type
	    – MXM Discrete Graphic Card NVIDIA® RTX A1000[1]

Front	**Optional:** – Smart Card Reader

Rear	– Dual-Mode Display Port x 1
	– HDMI® Connector[8] x 1
	Optional:
	– Flexible I/O Kit Set[9]
	  – A: USB 2.0 Type-A x 1 + 2nd LAN RJ45 x 1
	  – B: COM Port DB9 up to 2
	  – C: VGA x 1
	– Fischer I/O Kit Set[9]
	  – A: USB 2.0 x 1 + 2nd LAN x 1
	  – B: COM Port up to 2
	  – C: VGA x 1

Bottom	– 1st Storage: M.2 2280 PCIe 3.0 SSD (Kit)[3] x 1 – 1st DDR4-3200 SO-DIMM x 1 **Optional:** – 2nd DDR4-3200 SO-DIMM x 1 – GNSS and Smart Card Reader Module Slot – 2nd Storage M.2 2242 PCIe 4.0 SSD Module Slot

Accessories	
2nd Battery Pack[10]	– Standard Battery Pack BMLF3A Li-Ion 10.905V/6000mAh
AC Adapter	– DC-in Jack – 160W 100-240VAC, 50/60Hz
Battery Charger	– Multi Battery Charger MCRW

Certifications	
Certifications	– CE/FCC/UKCA/RCM – WEEE – REACH – POPs – RoHS – IP53 – MIL-STD-810H (0.9m drop and vibration) – MIL-STD-461G (Ground Navy)[11]

[1] NVIDIA® RTX A1000 must be pre-configured.
[2] Varies from display configurations.
[3] User-removable.
[4] System Memory up to 64GB
[5] Instant Cold Boot via AC Mode.
[6] via AC Mode

[7] Varies from configurations and optional accessories.
[8] Support 4K@50Hz/60Hz as specified in HDMI2.0b.
[9] Choose up to 3 combinations from Flexible or Fischer I/O Kit, non-repeatable for each interface.
[10] Hot-swappable with dual battery design.
[11] Contact your sales representative for more details.

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- Specifications subject to change without notice.
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