# LITE-RUGGED LAPTOP

# **ML15**



- 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.























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## MilDef Crete Australasia Pty Ltd

Level 5, 7 Eden Park Dr, Macquarie Park, NSW 2113, Australia. Tel: +61-2-8527-2542

# **LITE-RUGGED LAPTOP**



Items	Descriptions
Platform	– Intel <sup>®</sup> Tigerlake-H Platform
Operation System	– Windows 11 IoT
Processor	<ul> <li>Intel<sup>®</sup> Core<sup>™</sup> i5-11500H Processor</li> <li>6 Cores, 12MB Cache, up to 4.6GHz</li> <li>Support vPro<sup>®</sup></li> </ul>
Graphic	- Intel® UHD Graphics Optional: -MXM Discrete Graphic Card NVIDIA® RTX A1000¹
Display	<ul> <li>15.6" (1920 x 1080) LCD</li> <li>Optical Bonding</li> <li>Brightness: 1000 nits<sup>2</sup></li> <li>Optional:</li> <li>Capacitive Multi-Touch Screen</li> </ul>
Memory <sup>3,4</sup>	- 1 <sup>st</sup> : 8GB DDR4-3200 x 1 <b>Optional:</b> - 1 <sup>st</sup> : 16GB/32GB DDR4-3200 x 1 - <b>2</b> <sup>nd</sup> : 8GB/16GB/32GB DDR4-3200 x 1
Storage <sup>3</sup>	- 1st: 256GB M.2 2280 PCIe 3.0 SSD (Kit) Optional: - 1st: 512GB/1TB M.2 2280 PCIe 3.0 SSD (Kit) - 2nd: 256GB/512GB/1TB M.2 2242 PCIe 4.0 SSD - 3rd: 256GB/512GB/1TB 2.5" SATAIII SSD (Flex Bay)
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	<ul> <li>Power: System ON/ S3 (Green/ Breathing Green)</li> <li>SSD in Use (Flashing Green)</li> <li>Battery: Charging/ Low (Orange/ Flashing Orange)</li> </ul>
Security	– TPM 2.0
Case	Engineering Plastic/ Aluminum Alloy
Color	- Black
Environmental Specifications	<ul> <li>Operating Temperature: -10°C<sup>5</sup> ~ +60°C<sup>6</sup></li> <li>Storage Temperature: -40°C ~ +70°C</li> </ul>
Dimensions <sup>7</sup>	- 392 x 282 x 43mm (with bumpers)
Weight <sup>7</sup>	- Approximately 3.3 kg

Power		
Primary	<ul> <li>Standard Battery Pack BMLF3A:</li> </ul>	
Battery <sup>3,11</sup>	Li-lon 10.905V/6000mAh	
Input Power	<ul> <li>Fast Charging via Type-C</li> </ul>	
	- 60W~100W	
	– DC-in	
	– 19V	

¹NVIDIA® RTX A1000 must be pre-configured.

<sup>\*</sup>User-removable

4.System Memory up to 64GB

Instant Cold Boot via AC Mode.

via AC Mode



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Wireless & Communications		
LAN	- 2.5G base-T Ethernet	
WLAN/ Bluetooth <sup>®3</sup>	<ul><li>– Intel<sup>®</sup> Wi-Fi 6E AX210 (802.11ax)</li><li>– Bluetooth<sup>®</sup> 5.3</li></ul>	
GNSS	Optional:  - GPS/GLONASS/Galileo/Beidou	

110.1.4.6		
	I/O Interfaces	
Left	- Audio In/Out Combo x 1	
	<ul> <li>Thunderbolt<sup>™</sup> Type-C x 1 (Full function)</li> </ul>	
	– USB 3.2 Gen.2 Type-A x 2	
	– 1 <sup>st</sup> LAN RJ45 x 1	
	– SD Card Reader x 1	
	– SIM Card Slot <sup>11</sup> x 1	
	<ul> <li>Primary Battery Slot x 1</li> </ul>	
	– DC-in x 1	
	Optional:	
	− 2 <sup>nd</sup> Battery Slot x 1	
	- Flex Bay Slot	
Di-lat	<ul> <li>User-removable Type</li> </ul>	
Right	- Express Card 34/54	
	- SATA ODD	
	- 3 <sup>rd</sup> Storage 2.5" SATAIII SSD	
	<ul> <li>Non-user-removable Type</li> </ul>	
	<ul> <li>– MXM Discrete Graphic Card NVIDIA® RTX A1000¹</li> </ul>	
Front	Optional:	
Front	- Smart Card Reader	
	- Dual-Mode Display Port x 1	
	- HDMI® Connector <sup>8</sup> x 1	
	Optional:	
	- Flexible I/O Kit Set <sup>9</sup>	
	– A: USB 2.0 Type-A x 1 + 2 <sup>nd</sup> LAN RJ45 x 1	
Rear	– B: COM Port DB9 up to 2	
	– C: VGA x 1	
	- Fischer I/O Kit Set <sup>9</sup>	
	- A: USB 2.0 x 1 + 2 <sup>nd</sup> LAN x 1	
	– B: COM Port up to 2	
	– C: VGA x 1	
	- 1st Storage: M.2 2280 PCle 3.0 SSD x 1	
	- 1 <sup>st</sup> DDR4-3200 SO-DIMM x 1	
Dottom3		
Bottom <sup>3</sup>	- 1 <sup>st</sup> DDR4-3200 SO-DIMM x 1 <b>Optional:</b>	
Bottom <sup>3</sup>	- 1 <sup>st</sup> DDR4-3200 SO-DIMM x 1	

Accessories		
2 <sup>nd</sup> Battery	<ul> <li>Standard Battery Pack BMLF3A</li> </ul>	
Pack <sup>10</sup>	Li-Ion 10.905V/6000mAh	
AC Adapter	<ul><li>DC-in Jack</li><li>160W 100-240VAC, 50/60Hz</li></ul>	
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) <sup>11</sup>		

<sup>&</sup>lt;sup>7</sup>Varies from configurations and optional accessories.

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<sup>&</sup>lt;sup>2</sup>Varies from display configurations.

<sup>\*</sup>Support 4K@50Hz/60Hz as specified in HDMI2.0b.

Choose up to 3 combinations from Flexible and Fischer I/O Kit, non-repeatable for each interface...

"Hot-swappable with dual battery design.

Contact your sales representative for more details.