

RLC-4G RUGGED LAPTOP COMPUTER



Building on the legacy of our highly reliable RLC-3G rugged laptop, Miltope is proud to announce the RLC-4G fully rugged laptop with state of the art technology. Recognizing that over 10,000 RLC-3G laptops are installed and active in the military, our RLC-4G is designed to the same form/fit as the RLC-3G; enabling legacy customers to retain their field installation investment. VT Miltope, serving those who serve.



Form/Fit Replacement for RLC-3G

- Leverages user experience
- Retain existing mounts and installation kit investment
- Ease of field installations, upgrades, New Equipment Training, and user documentation updates

Cyber/EW Protection

- TPM2.0 & Secure Boot
- MIL-STD-461F
- Data-at-rest encryption options

RLC-4G Features and Functions:

- The fastest, most powerful performance in our fully rugged portable computing product line for military tactical operations
- Intel® Core™ i7 Quad Core Processor Kaby Lake, 7820EQ
- Sunlight readable 15.6" LED backlit LCD Display (1920x1080); multi-touch optional touchscreen
- DDR4 RAM (2400MHz) 16GB expandable to 32GB
- SATA III or NVME SSD 256GB, 512GB, or 1TB storage
- Embedded Intel® HD Graphics standard; optional discrete graphics card with 4 GB GDDR5 video memory.



MILTOPE

Service Elevated

SPECIFICATIONS

OPERATING SYSTEM: Windows® 10 Enterprise (standard); Windows® 10 Army Gold Master (customer supplied)

PROCESSOR: 7th Generation Intel® Core™ i7 Quad Core Processor Kaby Lake, 7820EQ

RAM: DDR4 RAM (2400MHz) 16GB (standard) or 32GB (optional)

STORAGE: Removable Portable Disk Cartridge; SATA III or NVME Solid State Drive: 256GB, 512GB, & 1TB options

DISPLAY SYSTEM: 15.6" LED; FHD (1920 x 1080) resolution, sunlight readable, and optional multi-touch touchscreen

KEYBOARD/POINTING DEVICE: Full-size 87-key backlit keyboard with integrated touchpad and pointing stick, 2 buttons, 12 Function keys, and Blackout key

INTERFACES: [Right Side I/O] 2x USB 3.0, 1x PCMCIA Type III; [Front Side I/O] 1x Smart Card; [Rear I/O] 2x Configurable Serial (RS-232C/422/485), 2x 1000 Mb Ethernet, 4x USB 3.0, 1x VGA, 2x HDMI, 2x USB 3.1 Type C, 1x 3.5mm stereo headphone/microphone combo jack, [Bottom I/O] 2x M.2 card slots

MEDIA: Internal 5 1/4" ISO standard Blu-Ray-ROM (DVD+RW), DVD +RW/CD-RW optical drive

PHYSICAL: Dimensions 15.4"W x 3.1"H x 11.1"D; Weight ~12 lbs. (configuration dependent)

POWER: 18-36VDC input; Rugged AC adapter/charger and AC power cord; 1x DR36 SMBus Li-ion rechargeable battery; MIL-STD-1275B

ENVIRONMENTALS

TEMPERATURE: MIL-STD-810G [Operating]]-18°C (0°F) to +49°C (+120°F); [Non-Operating] -32°C (-25°F) to +71°C (+160°F)

NON-OPERATING THERMAL SHOCK: MIL-STD-810G, -18°C (0°F) to +49°C (120°F)

SOLAR RADIATION: MIL-STD-810G, Method 505.6, Procedure I

TRANSIT DROP SHOCK: MIL-STD-810G, Method 516.7, Procedure IV

FUNCTIONAL SHOCK OPERATING: MIL-STD-810G, Method 516.7, Procedure I

SHOCK BENCH HANDLING: MIL-STD-810G (2014), Method 516.7, Procedure VI

OPERATING VIBRATION: MIL-STD-810G, Method 514.6, Procedure I (General Vibration)

TRANSPORTATION VIBRATION: MIL-STD-810G, Method 514.6, Procedure I (General Vibration)

MINIMUM INTEGRITY TEST: MIL-STD-810F, Method 514.5, Procedure I, Category 24, Figure 514.5C-17 in transit case, each axis, 0.04g²/Hz at 20-1000 Hz, -6dB/Octave at 1000-2000 Hz, 1hour/axis duration

ALTITUDE: MIL STD 810G, Method 500.6, Procedure II (Operating)12,500 feet; Procedure I (Non-Operating) 30,000 feet

SAND/DUST: IP 56 compliant; MIL-STD-810G, Method 510.6, Procedure I (Dust) and Procedure II (Sand)

RAIN, BLOWING: (Operating) IP65 compliant; MIL-STD-810G, Method 506.6, Procedure I; (Non-Operating) MIL-STD-810G, Method 506.6, Procedure I

HUMIDITY: (Operational) MIL-STD-810G, Method 507.6, Procedure II

INCLINATION-ORIENTATION: The computer is capable of operating in any orientation on any axis. Able to operate while on an inclination <= 30° on any axis.

SALT FOG: MIL-STD-810G, Method 509.6, Procedure I (in transit case, 5±1% aqueous salt)

FUNGUS: MIL-STD-810G, Method 508.7 (in transit case)

NUCLEAR BIOLOGICAL CHEMICAL (NBC): Fully operational when subjected to a contaminated environment.

MOPP IV COMPATIBILITY: Allows personnel dressed in MOPP Level IV equipment to use the controls, perform the functions to shut down, and store the computer.

EMI/EMC: MIL-STD-461F RE101/RE102 (Army Curve/Fixed Wing External and Helicopter); RS101/RS103/RS105 (Army Applications/Table VII Army Ground Level/1GHz Bandwidth min); CE101/CE102; CS101/CS114/CS115/CS116 (Table VI Ground Army and Shipboard All Ships Column)

ELECTROSTATIC DISCHARGE (ESD): MIL-STD-464A, para 5.7.3

HIGH ALTITUDE ELECTROMAGNETIC PULSE (HEMP): MIL-STD-461E, RS105; MIL-STD 2169B HEMP environment 1

NEAR STRIKE LIGHTNING (NSL): MIL-STD-810, Method MIL-STD-464A, Paragraph 5.4;

ACOUSTIC NOISE: MIL-STD-810F, 515.5; (Ambient noise generated does not exceed 60dBA, measured at 1 meter in front of the unit with a low ambient noise floor)

EXPLOSIVE ATMOSPHERE: Operates safely in an explosive atmospheric environment IAW MIL STD 810G, Method 511.6, Procedure I