

RCLC-1 RUGGED CONVERTIBLE LAPTOP COMPUTER

Reliable in the Extreme



MYMILTOPE

The new RCLC-1 is packed with technology and options that deliver faster, more powerful performance – in a new convertible laptop-to-tablet package. But don't let the small size fool you; it is still the ultra-rugged design that you've come to expect from the leaders at VT Miltope, derived from our family of rugged laptop computers that have served three generations of the US Army's Integrated Family of Test Equipment (IFTE). My Miltope!

RCLC-1 Features and Functions:

- Lightweight laptop-to-tablet form factor
- Features Intel® Core™ 2 Duo processor P8400 technology
- 10.6" 1280x768 WXGA, LCD LED backlit
- Faster, more powerful performance in a rugged portable computing system for military tactical operations
- Rugged 87 key backlit keyboard with tactile feel, tethered stylus and mouse "stick"
- Industry leading five-year warranty



SPECIFICATIONS

PROCESSOR:

Intel® Core™ 2 Duo P8400 mobile processor includes a 2.26 GHz processor, 3 MB L2 cache, 1066 MHz Front Side Bus

OPERATING SYSTEM:

Windows® 7, Red Hat® Enterprise Linux® (XP downgrade available IAW Microsoft® licensing provisions)

RAM:

Up to 8 GB DDR3

GRAPHICS:

Integrated Mobile Intel® Graphics Media Accelerator 4500MHD with 352 MB VRAM Allocation DVM T 5.0

STORAGE:

160 GB Removable Solid State Drive SATA (3 Gigabit/per second); 16-256 GB optional

DISPLAY SYSTEM:

10.6" 1280x768 WXGA, LCD LED backlit, Sunlight Readable Touchscreen up to 100,000 lux

KEYBOARD/POINTING DEVICE:

Rugged 87 key, backlit keyboard with tactile feel, tethered stylus and mouse "stick"

INTERFACES:

One RS-232/422/485-2/4 wire SW configurable, one USB 2.0, two combo USB 2.0/eSATA 3 Gbps, Analog (SVGA), one 10/100/1000 Ethernet, audio (In/Out/Mic ports), PCMCIA - 2x Type II or 1x Type III, Express Card/54, Smart Card, optional 802.11 a/b/g/n wireless, optional embedded dual 1553, optional embedded second RS-232/422/485; Upgradeable EFI BIOS

PERIPHERALS:

DVD+RW/CD-RW; optional Blu-ray via Docking Station

PHYSICAL:

Dimensions 11"W x 8.5"D x 2.4"H; Weight ~7.9 lbs.

POWER:

Rugged AC adapter/charger and AC power cord enables operation from 85 - 264 VAC, 47 - 440 Hz input power, Single DR202 Form Factor Li-ion 7800 mAh rechargeable battery; optional Rugged Docking Station with embedded power adapter

DOCKING STATION (Optional):

Enables operation from 85 - 264 VAC, 47 - 440 Hz input power; DVD+RW/CD-RW, IEEE 1284 parallel port; additional USB 2.0 port and RS-232/422/485, battery

ENVIRONMENTALS

TEMPERATURE, OPERATING:

MIL-STD-810G, Methods 501.5 and 502.5, Procedure II, (-18°C to +60°C), (0°F to +140°F)

TEMPERATURE, NON-OPERATING:

MIL-STD-810G, Methods 501.5 and 502.5, Procedure I, (-32°C to +71°C), (-25°F to +160°F)

SOLAR RADIATION:

MIL-STD-810G, Method 505.5, Procedure I, Diurnal Cycle A1

SHOCK, TRANSIT DROP:

MIL-STD-810G, Method 516.6, Procedure IV, Table IV to a maximum height of 36 inches

SHOCK, FUNCTIONAL:

MIL-STD-810G, Method 516.6, Procedure I

TRANSPORTATION VIBRATION (COMPOSITE-WHEELED):

MIL-STD-810G, Method 514.6, Procedure I, Category 4, Annex C

TRANSPORTATION VIBRATION (WATERCRAFT):

MIL-STD-810G, Method 514.6, Procedure I, Category 21, Annex D

ALTITUDE:

MIL-STD-810G, Method 500.5, Procedure I (Storage) to 30,000 feet, Procedure II (Operational) to 12,500 feet

RAIN:

MIL-STD-810G, Method 506.5, Procedure I, 1.8" per hour, wind velocity 20 mph for 30 minutes per side

HUMIDITY, OPERATING and NON-OPERATING:

MIL-STD-810G, Method 507.5, Procedure II, Aggravated (per Figure 507.5-7) up to 95% Relative Humidity

SALT FOG:

MIL-STD-810G, Method 509.5, 5 ± 1% aqueous salt atmosphere while in transit case and operating shipboard

SAND AND DUST:

MIL-STD-810G, Method 510.5, Procedures I and II

SAND: Winds of 20 mph ± 3 mph per surface, concentration 2.2 ± 0.5 g/m³

DUST: Winds of 20 mph ± 3 mph per surface, concentration 10.6 ± 0.7 g/m³

FUNGUS:

MIL-STD-810G, Method 508.6

EXPLOSIVE ATMOSPHERE:

MIL-STD-810G, Method 511.5, Procedure I

EMI/EMC

RADIATED EMISSIONS:

MIL-STD-461F, RE101 Paragraph 5.16 Army curve, RE101 Paragraph 5.16 Navy curve, RE102 Paragraph 5.17 Army Helo curve, RE102 Paragraph 5.17 Navy surface ship (topside) curve

RADIATED SUSCEPTIBILITY:

MIL-STD-461F, RS103 Paragraph 5.20 Ground Limit (30 MHz to 18 GHz), RS103 Paragraph 5.20 Table VII All Ships (Above Deck) 200 V/m, RS105 Paragraph 5.21

CONDUCTED EMISSIONS:

MIL-STD-461F, CE101 Paragraph 5.4, CE102 Paragraph 5.5

CONDUCTED SUSCEPTIBILITY:

MIL-STD-461F, CS101 Paragraph 5.7, CS114 Paragraph 5.13 Table VI Ground Army and Shipboard All Ships Column, CS115 Paragraph 5.14, CS116 Paragraph 5.155

HIGH ALTITUDE ELECTROMAGNETIC PULSE (HEMP):

MIL-STD-461F, RS105 Paragraph 5.21

ELECTROMAGNETIC ENVIRONMENT:

MIL-STD-464A, Paragraph 5.3, Table 1A

ELECTROMAGNETIC RADIATION HAZARDS:

MIL-STD-464A, frequency range of 2 MHz to 18 GHz