

RHTU RUGGED HANDHELD TERMINAL UNIT

Reliable in the Extreme



MYMILTOPE

Versatility meets sheer mobile computing power with the RHTU, designed specifically for rugged field and strategic applications. Robust yet mobile, VT Miltope's next generation rugged handheld is serving as part of the foundation in VT Miltope's expanding family of computers. The RHTU Rugged Handheld Terminal Unit combines the highest peripherals with ultra-rugged hardware, reinforcing the company's commitment to providing the ultimate in rugged mobile computing.

RHTU Features and Functions:

- Matrix color 10" diagonal sunlight readable LCD with touchscreen and stylus
- Versatile computer architecture with a consistent footprint for future upgrades
- Fast, powerful performance in a rugged handheld system specifically designed to be portable or vehicle mounted
- Rugged full virtual keyboard, 8 key backlit keypad
- Removable 80 GB Solid State SATA hard drive



SPECIFICATIONS

PROCESSOR:

Intel® 64 bit Core™ 2 Duo processor, 1.8 GHz processor, 6 MB L2 Cache, 1067 MHz Front Side Bus

OPERATING SYSTEM:

Windows® and Linux®

RAM:

2 GB Double-Data-Rate 3/1066 MHz SODIMM (expandable to 4 GB)

STORAGE:

Removable 80 GB Solid State SATA hard drive (minimum capacity)

DISPLAY SYSTEM:

Active Matrix Color 10" diagonal Sunlight Readable with touchscreen and stylus 1024x600 (WSVGA)

KEYBOARD/POINTING DEVICE:

Rugged full virtual keyboard; 8 key backlit keypad

INTERFACES:

Two RS-232 serial ports, one 10/100/1000 Ethernet, VGA, audio (in/out/mic ports), GPS antenna, two-button mouse and function keys, two USB 2.0, PCMCIA- 2x Type II or 1x Type III

PHYSICAL:

Dimensions 11"W x 4"H x 8"D; Weight 9.6 lbs.

OPTIONS:

SAASM GPS, Taclink Modem

POWER:

Single DR202 Form Factor Li-Ion 7800 mAh rechargeable battery; 18-32 VDC; AC power (110/220 ± 10% VAC, 50 to 60 Hz ± 10%); IAW MIL-STD-1275D.

ENVIRONMENTALS

TEMPERATURE, OPERATING:

MIL-STD-810F, Method 501.4/502.4, Procedure II (3 cycles); (-35°C to +55°C) (-30°F to +130°F)

TEMPERATURE, NON-OPERATING:

MIL-STD-810F, Method 501.4/502.4, Procedure I, Table 501.4-II; (-40°C to +66°C) (-40°F to +150°F)

ALTITUDE:

MIL-STD-810F, Method 500.4, Procedure II (Operating) up to 15,000 feet; MIL-STD-810F, Method 500.4, Procedure I (Storage) up to 40,000 feet (minimum test duration 1 hour, out of transit case)

HUMIDITY:

MIL-STD-810F, Method 507.4-1, Aggravated cycle for five 48-hour cycles

TRANSIT DROP:

MIL-STD-810F, Method 516.5, Procedure IV; three drops on each face from a height of 3 feet onto a 2" thick plywood base on top of a concrete floor, will exhibit continual operation

VIBRATION:

MIL-STD-810F, Method 514.5, Procedure I

SHOCK BENCH HANDLING:

MIL-STD-810F Method 516.5, Procedure VI

SAND/DUST:

MIL-STD-810F, Method 510.4, Procedures I and II; withstand a blowing dust environment with a wind velocity of 20 mph and withstand a blowing sand environment with a wind velocity of 40 mph and a sand concentration of 1.1 +/- 0.3 g/m³; duration of dust test will be 6 hours at +23 degrees C and 6 hours at the high operating temperature of the item being tested. The duration of the sand test will be 90 minutes for each vulnerable face of the item being tested.

RAIN:

MIL-STD-810F, Method 506.4, Procedure I; 1.8" per hour, 40 mph wind for 40 minutes

SALT FOG:

MIL-STD-810F, Method 509.4 while operational

THERMAL SHOCK:

MIL-STD-810F, Method 503.4, Procedure II; withstand temperature changes of -40°F to +70°F, and +130°F to +70°F in 15 minutes

LIGHTING PROTECTION:

MIL-STD-464 paragraph 5.4, Figure 2 and Table IIA and Table IIB

SOLAR RADIATION:

MIL-STD-810F, Method 505.4, Procedure I

EMI/EMC:

MIL-STD-461E; Methods CE-102, CS-101, CS-114, CS-115, CS-116, RE-102 & RS-103.

Direct Contact non-operating 2,000V Human Body Model (HBM) tests and operating 4,000V HBM tests.

High Altitude Electro Magnetic Pulse (HEMP):

MIL-STD-2169B