RTHD-2 RUGGEDIZED TACTICAL HANDHELD DEVICE

The Rugged RTHD-2 light-weight handheld computer delivers shared situational awareness data to either the dismounted or mounted war fighter for five hours in a single charge. That's reliable. It also brings powerful mobile performance, a 5.0" sunlit readable LCD touchscreen, and multi-mission functionality. That's extreme. In situations where failure comes at a high cost, you realize why so many in the industry refer to VT Miltope as theirs. Make it yours.

RTHD-2 Features and Functions:

- 5" 800x480 WVGA LCD
- Backlight LED display
- 6 interface Buttons
- TI OMAP™ DM-3730 CPU
- 1 GB RAM, 512 MB NAND, 128 MB NOR
- Up to 32 GB Mass Storage (Optional)
- 802.11 b/g/n WiFi
- RS-232 interface (3-Wire)
- USB Host and USB OTG Interfaces
- Expansion Capabilities
- Windows® Mobile, Android

VT Miltope
A company of VT Systems
Service Elevated

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SPECIFICATIONS

PROCESSOR:
Texas Instruments OMAP™ DM-3730 up to 1GHz ARM Cortex-A8 core

OPERATING SYSTEM:
Windows® Mobile 6.5.1, Android™ 2.3 and 4.0

RAM:
1 GB @ 200 MHz, 32-bit DDR (LPDDR)

STORAGE:
512 MB NAND, 128 MB NOR, up to 32 GB of mass storage

DISPLAY:
5" 800x480 WVGA color TFT-LCD; LED Backlight; 4-Wire Glass-On-Glass Resistive Touchscreen

DISCRETE BUTTON CONTROL:
6 interface buttons (4 function keys; 1 power, 1 reset)

FEATURES:
Embedded commercial GPS receiver and antenna, Embedded WiFi 802.11 b/g/n module, Embedded Bluetooth transceiver, Embedded Taclink (Optional), Embedded SAASM GPS (Optional), Embedded Digital Compass, Embedded Accelerometer, Embedded Mass Storage MicroSD Card.

Custom expansion connector allows the rapid development of "expansion packs" to meet individual customer's functional and physical interface needs: Two USB 2.0 High Speed ports, One RS-232 serial port (3-wire), One Ethernet port 10/100/1000, One Audio input/output, One SMBus with HW assisted Interrupt-One I2C with HW assisted Interrupt, Application level accessible GPIO, 12V Input Power.

PHYSICAL:
Dimensions: 5.69"W x 4.62"H x 1.85"D; Weight 18.5 oz

POWER:
BATTERY: 4 hours (min.), 5 hour runtime

EXTERNAL POWER: 12V at 3 Amps, "9.5-15V" at 4Amps (1.4 amps max, while operational and charging)

EXPANSION PORT: USB Host, RS-232, 5V Expansion Power Output, Auxiliary Input Power, SMBus Digital Interface

ENVIRONMENTALS

TEMPERATURE, OPERATING:
MIL-STD-810G, Methods 501.5, 502.5, Procedures I and II, -18°C to +60°C

TEMPERATURE,NON-OPERATING:
MIL-STD-810G, Methods 501.5, 502.5, Procedures I and II, -32°C to +66°C

ALTITUDE:
MIL-STD-810G, Method 500.5, Procedures I and II
15,000 feet operating, 40,000 feet non-operating

THERMAL SHOCK,OPERATING:
MIL-STD-810F, Method 503.4, Procedure II – Cyclic, -32°C to +66°C within 10 min

HUMIDITY, OPERATING:
MIL-STD-810G, Method 507.5, Procedures II
10% to 95%; non-condensing, 23°C to 60°C, 5 cycles of 48 Hr.

TRANSIT DROP:
MIL-STD-810G, Method 516.5, Procedure IV; Drop each face, edge, corner (26 drops total) 3 ft onto 3/4" plywood

SAND/DUST:
MIL-STD-810G, Method 510.5, Procedures I and II; Blowing dust at 40 mph for 30 min; Blowing sand at 20 mph for 30 min

RAIN:
MIL-STD-810G, Method 506.5, Procedure I;
1.8"/hr @ 20 mph winds; All directions, all sides; 30 min

BENCH HANDLING:
MIL-STD-810G, Method 516.5 Procedure VI; 4" drop onto wooden bench, 4 drops each face

MINIMUM INTEGRITY VIBRATION:
MIL-STD-810G, Method 514.6, Procedure I; Category 24 (Minimum Integrity), Figure 514.6E-1

EMI/EMC:
MIL-STD-461F, RE102: paragraph 5.17, Army Ground; RS101: paragraph 5.19, Army Applications; RS103: paragraph 5.20, Ground Limit, 2 MHz to 40 GHz @ 50 V/m, Table VII; CE102: paragraph 5.5; CS101: paragraph 5.7; CS114: paragraph 5.13, Table VI Ground Army and Shipboard All Ships Column; CS115: paragraph 5.14; CS116: paragraph 5.15