

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 Taalink (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