

iX104C⁴M™

XPLORE TECHNOLOGIES



Takes what you give it and asks for more.

MILITARY | FEDERAL GOVERNMENT | ARMY | NAVY | AIR FORCE | MARINES | COMBAT OPERATIONS | TACTICAL OPERATIONS | LOGISTICS

BUILT FOR MILITARY Based upon the award winning commercial system, the M-series has been specially engineered and field-proven for military applications. The iX104C⁴M underwent significant redesign to stretch its tolerance of extreme environments. To prove it, Xplore™'s M-series of products have undergone complete MIL-STD testing as well as military field tests to validate their rugged endurance.

BUILT WITH AND FOR END USERS Xplore™ focuses heavily on customer needs and direct end-user feedback as well as market and technology trends to define and design our products. In working directly with end-users, client project teams, component vendors and industry experts we arrive at a customer approved family of products that crosses several vertical markets. These products provide our customers with the highest probability of success in achieving their goals and objectives while using the system.

VERSATILE Powered by Intel Dual Core technology and Microsoft operating systems, the M-series also passes stringent RE-102 and RS-103 tests to ensure performance on flight decks and around sensitive equipment. The iX104C⁴M enables programs to adapt this rugged mobile solution to most vehicles from HMMWVs to MRAP vehicles. Onboard ports provide users with the ability to utilize off-the-shelf accessories as well as customized devices to meet mission specific objectives.

iX104C⁴M™

TECHNICAL SPECIFICATIONS

PROCESSOR SPECIFICATIONS

CPU: Intel® U2500, 1.2 GHz Dual Core
CHIPSET: Intel® 945GME - 533 MHz FSB

DIMENSION AND WEIGHT

11.20"W x 8.25"H x 1.60"D (284.4 x 209.5 x 40.7mm)
5.2 lbs (2.35 kg) with 55Whr battery

INTERFACE SPECIFICATIONS

WIRELESS RADIO BAYS: One User Accessible Type I or Type II PC Card Slot (PCMCIA Card Bus Version 3.0)

One Mini-PCI Express OEM Radio Bay

INTEGRATED WIRELESS: Intel® Wireless WiFi Link 4965AGN (802.11 agn)

INTEGRATED INTERFACES: DC in

Two USB 2.0 Ports

Microphone and Headset jacks

LAN (RJ-45) 10/100/1000 Mbit/s

9 pin Serial Port with RS232/422/485 compatibility

VGA Port

Serial Port (Optional)

KEYPAD/USER CONTROLS: Application buttons with primary & secondary functions

Power on/Resume button

Reset button

Integrated Finger Print Scanner

STATUS INDICATORS: Power, Charge/DC-in, HDD Indicator

POWER SPECIFICATIONS

EXTENDED LIFE BATTERY: Eight Cell Removable Lithium ION Prismatic
7.4V @ 7600 mAh (55Whr)

RECHARGE TIME: 3.5 hours (90%), Life: Up to 4.5 hours

SUSPEND LIFE: Minimum 5 days

BRIDGE BATTERY: Six Cell NiMH, 45mAh

BRIDGE BATTERY LIFE: 3.5 minutes from full charge

(Suspend-to-RAM on Bridge Battery only)

AC ADAPTER: Auto sensing 100-240V, 50-60Hz supplying 19VDC,
3.42A current

BATTERY STORAGE: 32° to 140° F (0° to 60° C) at 40-60% capacity (Recommended)

BATTERY CHARGE: 32° to 113° F (0° to 45° C) (Recommended)

MEMORY AND STORAGE SPECIFICATIONS

MAIN RAM: 1GB DDR2, or 2GB DDR2 (Optional)

L2 CACHE: 2MB on-die

BIOS ROM: 8Mbit (FWH)

HARD DISK DRIVE: 80GB IDE HDD with Hard Drive Heater
User Accessible 160GB SSD (Optional)

AUDIO SPECIFICATIONS

AUDIO: ACC 262

On-board microphone with noise cancellation

On-board integrated stereo speakers

ADDITIONAL SPECIFICATIONS

OPERATING SYSTEM: Microsoft Windows 7, or
Microsoft Windows XP Tablet PC Edition

DISPLAY SPECIFICATIONS

DISPLAY: 10.4" XGA TFT (1024x768), 16M colors, 32-bit true color
Active Digital Sensor
Optional Dual Mode AllVue™ Xtreme LCD Technology
for enhanced indoor/outdoor display

BRIGHTNESS: 100 levels

CONTRAST RATIOS: Typical 250: 1 (minimum 100:1)

VRAM: Intel Graphic Media Accelerator Driver for Mobile
128MB shared memory

ENVIRONMENTAL SPECIFICATIONS

TEMPERATURE: MIL-STD 810F METHODS 501.4 & 502.4

OPERATING: -4° to 140° F (-20° to 60° C)

STORAGE: -40° to 167° F (-40° to 75° C)

COLD BOOT (BATTERY): 32° F (0° C) @ 70% charge

COLD BOOT (AC ADAPTER): 14° F (-10°)

THERMAL SHOCK: MIL-STD 810F METHOD 503.4 PROCEDURE II

Cyclic 10° C/minute over -51° C to 71° C

HUMIDITY: MIL-STD 810F METHOD 507.4

3% to 95% non-condensing

TRANSIT SHOCK: MIL-STD 810F METHOD 516.5

Up to 4' drop to concrete; all surfaces, edges & corners

VIBRATION: MIL-STD 810F METHOD 514.5C-17

0.4g²/Hz, 20Hz-1000Hz

-6dB/octave 1000Hz-2000 Hz

VEHICULAR VIBRATION: MIL-STD 810F METHOD 514.5C-3

Composite Wheeled Vehicle, (7Hz to 500 Hz)

ENCLOSURE CLASS: MIL-STD 810F METHOD 510.4 PROCEDURE I

Blowing Dust: Particle Size: < 149 µm

Particle Density: 10 ± 7 g/m³

Wind Speed: 1.5 m/s to 8.9 m/s

MIL-STD 810F METHOD 510.4 PROCEDURE II

Blowing Sand: Particle Size: 150 µm to 850 µm

Particle Density: 2.2 ± 0.5 g/m³

Wind Speed: 18-29 m/s

MIL-STD 810F METHOD 509.4

Salt Fog: 5% Saline for 48 hours (12 wet, 12 dry, 2 cycles)

MIL-STD 810F METHOD 505.4

Solar Radiation: 1120 W/m² (355 Btu/ft²/hr)

UVB @ 50° C, 7x24 hour cycles

IP 65 Equivalence

AGENCY APPROVALS

EMISSIONS: CE Mark EN55022 (CISPR22) Class B; MIL-STD 461E;
e-Mark; FCC Part 15

IMMUNITY: EN55024

SAFETY: UL60950; EN60950; Atex Zone 2, Category 3;
UL1604 Class 1 / Div 2; RoHS Compliant

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