



*Rugged Mobile Computers  
for Real World Environments*

## **iX104C<sup>2</sup><sup>TM</sup>** Rugged Tablet PC Family

*Xplore's iX104C<sup>2</sup> is a perfect fit in applications where there are more stringent shock and vibration immunity requirements.*

In today's dynamic work place, many companies have turned to mobile automation as a means of enhancing operating efficiencies and providing better service to customers. Many of these applications occur in mobile and/or harsh environments, which dictate the requirements for a ruggedized mobile computer. Mobile workers need access to information while they are in the field and the nature of Xplore's rugged mobile computers is the answer.

Our products are designed for workers that are mobile and/or operate in challenging working conditions on a daily basis. With value and performance, the iX104C<sup>2</sup> is powerful, mobile, reliable and can withstand more punishment.

### **Durable**

Magnesium chassis, internal frames and a patented and proven mechanism for durability can be found on Xplore's rugged products. No longer will organizations have to allot resources to deal with damaged computers and the repair costs to return those damaged units to the field. Thorough environmental stress testing verifies this reliability so that mobile workers can be effective at their jobs.

### **Viewable**

Xplore's AllVue<sup>TM</sup> screen technology reduces reflectivity and glare, and increases brightness and contrast, therefore boosting screen view ability in all lighting conditions including direct sunlight.

### **Powerful**

Compatibility is not an issue with Xplore's rugged mobile computers. Our products are designed around industry standards. At the heart of the iX104C<sup>2</sup> is an Intel Pentium M 733 processor that enables the use of a full Windows

operating system. Mobile workers can leverage the same applications that they would in an office environment. Flexible implementation allows for compatibility with the rapidly growing base of connections.

### **Versatile**

Our highly functional, durable and reliable desktop and mobile docking solutions are specifically tailored to the various vertical market applications such as on a desktop, in a vehicle, on a forklift, on a mobile cart or on a wall.

### **Easy to Use**

Our advanced active digitizer and combination Dual Mode active pen and finger touch technologies automatically switch between active stylus and resistive finger touch input for increased accuracy, responsiveness and durability.

### **Mobile**

The iX104C<sup>2</sup> is designed to use Lithium Ion battery technology, allowing mobile workers to function independently in the field longer while at the same time saving economic resources spent to purchase extra battery packs. Furthermore, the iX104C<sup>2</sup> has several carry cases and handle options to enhance its portability.

### **Low Cost of Ownership**

The rugged design extends the life of the unit and offers longer life cycle, as well as reduced failure rates therefore, reducing user downtime. Because we understand your applications, we know you can't tolerate repairs and downtime which can negatively impact a user's productivity.

With Xplore's rugged Tablet PCs, organizations can potentially realize greater returns on their investments by offering better efficiency in the field and lower technical support costs.

When your application requires a mobile computer that is built for demanding conditions and flexible enough to meet your needs – choose Xplore.

## Processor Specifications

- CPU: Intel Pentium M 733
- Chipset: Intel 855GME - 400 MHz
- Processor Speed: 1.1 GHz

## Dimension and Weight

4.9 lbs (2.2 kg) with standard battery  
11.20"W x 8.25"H x 1.60"D  
(284.5mm x 209.60mm x 40.60mm)

## Interface Specifications

- Wireless Radio Bays: One internal Type I or Type II PC card slot (PCMCIA cardbus version 3.0)  
One internal OEM radio bay
- Integrated Interfaces: DC in  
Two USB 2.0  
Microphone jack  
Headset jack  
LAN (RJ-45)/Modem (RJ-11) combo port  
15 pin D-SUB connector for external VGA monitor  
Optional Bluetooth/56K modem combo card  
Remote SIM socket for GPRS
- Keypad/User Controls: Application buttons with primary, secondary and tertiary functions  
Power on/Suspend/Resume button  
Reset button  
Integrated joystick slew control
- Status Indicators: Power, charge/DC-in, warning

## Power Specifications

- Main Battery: (Standard) Six cell removable Lithium ION prismatic  
7.4V @ 5700 mAh (41Whr)  
Recharge time: 2.5 hours (90%)  
Life: up to 3.5 hours  
Suspend life: Minimum three days
- Extended Life Battery: (Optional) Eight cell removable Lithium ION prismatic  
7.4V @ 7600 mAh (55Whr)  
Recharge time: 3.5 hours (90%)  
Life: up to 5 hours  
Suspend life: Minimum 5 days
- Bridge Battery: Six cell NiMH, 45mAh  
Life (with suspend-to-RAM on bridge battery only): 5 minutes from full charge
- AC Adapter: Auto sensing 100-240V, 50-60Hz  
supplying 19VDC, 3.42A current
- Battery Storage: (Recommended) Temperature: 32° to 140° F (0° to 60° C) at 40 to 60% capacity
- Battery Charge: (Recommended) Temperature: 32° to 113° F (0° to 45° C)

## Memory & Storage Specifications

- Main RAM: 512MB & Optional 1GB
- L2 Cache: 2MB on-die
- BIOS ROM: 8Mbit (FWH)
- Hard Disk Drive: 40GB IDE HDD (2.5" shock mounted)  
Optional 80GB IDE HDD

## Audio Specifications

- Audio: AC'97 codec  
On-board microphone with noise cancellation  
On-board integrated stereo speakers

## Additional Specifications

- Operating System: Microsoft Windows XP Tablet Edition

## Display Specifications

- Display: 10.4" XGA TFT (1024x768), 16M colors, 32-bit true color  
Active digital sensor  
Optional active digital sensor and pen & resistive touch digitizer (Dual Mode)  
Optional AllVue™ LCD technology for enhanced indoor/outdoor display  
16 levels
- Brightness: Horizontal 30 degrees (minimum)  
Vertical 10 degrees (minimum)
- Viewing Angle: Typical 250: 1 (minimum 100:1)
- Contrast Ratios: Intel Extreme Graphics 2 technology  
64MB 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): any  
1.5°C < 5°C / minute over -20°C to 60°C
- Thermal Shock: MIL-STD 810F method 507.4
- Humidity: 0 to 95% non-condensing  
MIL-STD 810F method 516.5
- Transit Shock: Up to 4' drop to concrete, all surfaces, edges and corners  
MIL-STD 810F method 516.5
- Crash Shock: 75g, 11ms, Terminal sawtooth  
MIL-STD 810F method 514.5C-17
- Vibration: 0.4g<sup>2</sup>/Hz, 20Hz - 1000Hz  
-6dB/octave 1000Hz - 2000 Hz
- Vehicular Vibration: MIL-STD 810F method 514.5C-17  
Composite wheeled vehicle
- Enclosure Class: MIL-STD 810F method 512.4 procedure 1  
Immersion in 30cm water for 30 minutes  
MIL-STD 810F method 510.4 procedure 1  
Sand & dust: Particle size < 149 µm,  
10 ±7 g/m<sup>3</sup> particle density,  
1.5 m/s to 8.9 m/s wind speed  
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/m<sup>2</sup> (355 Btu/ft<sup>2</sup>/hr)  
UVB @ 50°C, 7x24 hr cycles)  
IP 67 equivalence (up to 30 cm water)

## Agency Approvals

- Emissions: EN55022 (CISPR22) Class B  
FCC 15, Class B  
CE Mark
- Immunity: EN55024  
UL60950  
EN60950
- Safety: EN60950  
CSA Haz-Loc Class I  
UL 1604 with 41Whr and 55Whr batteries  
and all wireless radios  
e-mark approval, e11 022821  
Atex Zone 2, Category 3



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