



iX104C²™ Rugged Tablet PC Family

- **iX104C²**™
- **iX104C²D**™ Dual Mode
- **iX104C²V**™ with AllVue™



Durable

The iX104C² family is designed to meet the needs of mobile enterprise users while providing rugged features that protect and extend the system's lifespan and enhance reliability.

- **Rugged Construction** - Over 30 unique rugged characteristics counteract and minimize damage in harsh environments or if the iX104 is dropped, struck, or exposed to constant vibration. By protecting everything in a multi-layered magnesium housing with a patent pending bumper system, the iX104C² can operate in places that other computers can't

- **MIL-STD 810F Tested** - iX104C² tablets are engineered, third party tested, and warranted to US Military Standards (MIL-STD 810F) for environmental extremes. These standards are designed to test a device's ability to survive in harsh conditions throughout its expected service life

Versatile

iX104C² Tablet PCs can be used in and adapted to a number of different environments.

- **Docking Stations** - iX104 docking stations are designed for multiple environments such as on a desktop, in a vehicle, on a forklift, on mobile cart, or on a wall. Durable mounting kits allow for proper positioning in a variety of workspaces

- **Flexible Computing** - iX104C² tablets can handle practically any application input requirements with features like seamless switching between landscape and portrait modes, finger touch input, and natural handwriting recognition with a familiar pen and paper feel

- **AllVue™ LCD Technology** - Whether indoors or outside, the XGA display can easily be seen thanks to Xplore's AllVue screen technology that reduces reflectivity and glare, and increases brightness and contrast, boosting screen viewability *in all lighting conditions*

- **Auto Sensing Dual Mode** - The iX104C²D automatically switches between active stylus and resistive finger touch input without having to manually toggle the interface

- **Built-in Wireless Communication** - iX104C² systems support always available multi-modal wireless communications. Integrated, protected antennas are performance matched to the radios for WLAN, WAN, and PAN connections. An external snap-on GPS module extends the wireless connectivity further without compromising the internal radios

Lower Cost of Ownership

Over a typical product lifespan, Xplore's rugged tablet PCs outperform their mobile computing counterparts

- **Longer Lifecycle** - The rugged design of the iX104C² helps extend the life of the unit, protecting it from damage that would take a normal computer out of commission

- **Reduced Failure Rates** - Studies show that commercial grade mobile computers have almost twice as many failures as their rugged equivalents. Costs can skyrocket repairing equipment that is continually damaged

- **Reduced User Downtime** - User's need to trust that their equipment will be there for them. If it's not, productivity can suffer

Return on Investment

Business can potentially realize greater return on their investment with Xplore's rugged tablet PCs.

- **Increased Productivity** - Mobilizing workers can lead to higher end user satisfaction, more accurate decision making, and greater efficiency out in the field

- **Lower Technical Support Costs** - Durability reduces support related to damaged units, CCX (Cisco compatible extensions) and WiFi certifications ensure interoperability with the widest variety of wireless equipment, and the Microsoft Windows platform provides a high level of compatibility with applications and peripherals



Industry Leading Design and Performance

The iX104C² family was designed to meet the needs of users looking for standard desktop or laptop functionality in a device that can travel beyond the office environment and endure exposure to harsh conditions and rough treatment. Take a look at some of the features that provide reliable enterprise class performance outside the office in a mobile and rugged device.



Physical Specifications

Dimensions	- 11.20" x 8.25" x 1.60" (WxHxD)
	- 284.5 mm x 209.60 mm x 40.60 mm
Weight	- 4.45 lbs (2 kg) with standard battery

Processor Specifications

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

Memory & Storage Specifications

Main RAM	- 256MB DDR RAM
	- Optional 512MB & 1GB
L2 Cache	- 2MB on-die
BIOS ROM	- 8Mbit (FWH)
Hard Disk Drive	- 40GB IDE HDD (2.5" shock mounted)
	- Optional 80GB IDE HDD

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
Brightness	- 16 levels
Viewing Angle	- Horizontal - 30 degrees (minimum)
	- Vertical - 10 degrees (minimum)
Contrast Ratios	- Typical 250:1 (minimum 100:1)
VRAM	- Intel Extreme Graphics 2 technology
	- 64MB shared memory

Audio Specifications

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

Interface Specifications

Wireless Radio Bays	- One internal Type I or Type II PC card slot (PCMCIA cardbus version 3.0)
	- One internal mini PCI slot
	- 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

Additional Specifications

Operating System	- Microsoft Windows XP Pro Tablet Edition
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Power Specifications

Main Battery (Standard)	- Two 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)	- Four 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%-60% capacity
Battery Charge (Recommended)	- Temperature: 32° to 113° F (0° to 45° C)

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
Thermal Shock	- 1.5°C < 5°C / minute over -20°C to 60°C
Humidity	- MIL-STD 810F method 507.4
	0% to 95% non-condensing
Transit Shock	- MIL-STD 810F method 516.5
	Up to 4' drop to concrete, all surfaces, edges, and corners
Crash Shock	- MIL-STD 810F method 516.5
	75g, 11ms, Terminal sawtooth
Vibration	- MIL-STD 810F method 514.5C-17
	0.4g ² /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 ³ 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: 120 W/m ² (355 Btu/ft ² /hr) UVB @ 50°C, 7x24 hr cycles)
	- Contamination by fluids: Detergents, brake fluid, aromatic hydrocarbons)
	- IP 67 equivalence (up to 30cm water)

Agency Approvals

Emissions	- EN55022 (CISPR22) Class B
	- FCC 15, Class B
	- DOC Class B
	- CE Mark
Immunity	- EN55024
	- FCC 15, Class B
	- DOC Class B
Safety	- UL and cUL listed, UL 1950, third edition
	- TuV T- Mark, EN60950
	- UL and cUL listed, UL 1604 with 41Whr and 55Whr batteries and all wireless radios
	- e-mark approval, e11 022821
	- Atex Zone 2, Category 3



COMMON CHALLENGES

No matter what division, department, or group in your enterprise is looking for a mobile computing solution, the challenges remain the same. Leaner budgets and longer equipment lifecycles continue to force project and IT managers to squeeze the most out of available resources. When considering what mobile computing systems are best suited for the task, a number of important issues should be addressed:

- **Performance** - Can it do the job? Advanced operating systems, complex software applications, and wireless networking demand powerful computing capabilities
- **Reliability** - Will the equipment work when needed most? Users must be able to count on their mobile computing systems to do their jobs. Constant repairs and downtime negatively impact a user's productivity and acceptance of the tools being used
- **Flexibility** - Can we take advantage of one system for multiple applications and user types? Mobile computers must provide portability, dockability, and multiple connectivity options
- **Ease of Deployment** - How long will it take to get the project up and running and maintain it? To reduce the learning curve and get mobile workers up and running fast, a flexible, reliable, and easy to use system is critical
- **Total Cost of Ownership** - What are the direct and indirect costs beyond the initial procurement? Downtime, IT support, repairs, and maintenance can significantly boost the total cost of any mobile project
- **Return on Investment** - Did the expense make sense? Did the program meet the desired objectives? Mobile computing investments must provide measurable results

Xplore's rugged tablet PCs address these challenges and more. With value and performance comparable to commercial grade mobile computers, Xplore's tablet PCs can do the same work, go more places, withstand more punishment, are more reliable, and last longer than their more fragile counterparts. Xplore's iX104C² family of products meets the needs of users that are looking for durable mobile computing solutions that can operate far beyond the reach of normal mobile computing devices.

Powerful

The iX104C² utilizes the latest computing technology and performs comparably to the leading laptop and tablet PCs.

- **Horsepower** - The iX104C² features the Intel Pentium M processor 733 with Centrino Mobile technology, giving users a 1.1GHz processor and integrated 802.11b/g wireless networking. A long life Lithium Ion Prismatic battery pack with warm swap capabilities supports extended field usage away from wired power sources
- **Complete Solutions** - Xplore offers a full line of docking solutions, carrying cases, external keyboards, and power options to create a configuration that best fits the project
- **Certification** - CCX (Cisco compatible extensions) and WiFi certifications ensure interoperability with the widest variety of wireless equipment on the market

Easy to Deploy

iX104C² Tablet PCs can be used in and adapted to a number of different environments.

- **User Adoption** - With its intuitive "pen and paper" feel, the iX104C² Tablet PC can lower the learning curve and provide more ready access to applications and data
- **Windows XP Tablet PC Edition** - An advanced operating system that can run application software available for Windows XP and provides natural handwriting recognition capabilities
- **Standardized Hardware** - By selecting a common Intel chipset across mobile devices, IT managers can use a single image across all form factors, reducing qualification and management costs



Xplore Technologies, a Leader in Rugged Mobile Computing

Xplore Technologies Corp, founded in 1996, is an innovative leader in the rugged Tablet PC industry. The iX104 line of products are designed to meet the computing needs of users outside of the office environment.

Xplore's rugged iX104 Tablet PCs are designed to withstand harsh operating conditions and physical stresses such as temperature extremes, drops to concrete, intense vibration, and exposure to water and dust. Xplore's products are designed and tested to meet US Military Environmental Standards (MIL- STD).



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