

Xplore Technologies®

iX104™ Rugged Tablet PC



Designed for 

Xplore's *iX104™* is the first rugged Tablet PC product engineered from the ground up exclusively around Microsoft's versatile and powerful Windows XP Tablet PC Edition Operating System by a manufacturer that has been providing rugged pen computing systems since 1996.

Designed and tested around Military Environmental Test Standards [MIL-STD 810F], the *iX104* extends the benefits of Windows XP Tablet PC Edition to go beyond the office corridor and into the field, the warehouse, the police cruiser or wherever mobile workers operate. Handling the daily exposures to extreme operating temperatures, drops and shocks and the vibration associated with forklifts, trucks and police cruisers, the *iX104* is ideally suited for public safety, utility, field service, field sales, health care, warehousing, transportation, government/military and homeland security applications.

Powerful:

- **Rugged Construction** - *iX104's* magnesium chassis and patented protection system lets you work free from worry that your device will be damaged in harsh computing environments be it dropped, banged or exposed to constant vibration
- **Horsepower** - at the heart of the *iX104* is a powerful ULV Intel® Pentium® III processor-M, 4X AGP graphics accelerator, up to 48MB of video memory, amplified stereo speakers and a long life Lithium Phosphate battery pack

Mobile:

- **Docking Stations** - the *iX104* docking stations are designed for multiple working environments be it on a desktop, in a vehicle or on a wall. Our vast array of durable, custom mounting kits allow for proper positioning in a variety of workspaces. And with Windows XP **Grab and Go** capabilities, docking and undocking of the *iX104* lets users quickly grab and go without having to change to a standby or hibernate state
- **Built-in Wireless Communication** - the *iX104* has internal radio bays and performance matched embedded antennas for true mobility. Support for simultaneous WLAN and WWAN lets you work in any environment. Windows XP zero configuration wireless support makes it easy to take advantage of wireless networks and stay connected

Versatile:

- **Enhanced Display** - whether indoors or outside the *iX104's* XGA display can easily be seen thanks to Xplore's optical enhancement technology. In addition **Instant Screen Rotation** provides additional flexibility in how you use your *iX104* by letting the user instantly change the screen rotation from portrait to landscape mode on-the-fly
- **Maintenance and Upgrades** - are easy with the Xplore Rapid Configuration Bay designed to allow for maintenance and future expansion of your system e.g. RAM, hard drives or radio upgrades
- **Xplore Snap-On Expansion Modules** - allow further expansion of the system to meet specific applications such as GIS, digital imaging or scanning
- **Hot Keys** - an on-board backlit keypad is mapped to specific Tablet PC functions that permit quick access to common tasks. In addition this keypad allows access to the system when a keyboard is not available for diagnostics or BIOS level upgrades



Super Rugged Construction

The **iX104** has been engineered for the most demanding applications. Extreme environments, high mobility or specific application challenges are met by Xplore's innovative and patented designs.

- Rugged magnesium chassis
- Patented industrial bumper system
- Sealed and protected from the environment
- Size: 11.20" (283.9mm) X 8.25" (209.3mm) X 1.6"(40.8mm) (WxHxD)
- Weight: Approx. 2 kg. (4.45 lbs.) with standard battery

Xplore Optically Enhanced Indoor/Outdoor Displays

- 10.4" XGA TFT Transmissive LCD (standard)
- 10.4" XGA TFT Transmissive Ultra Hi-Brite LCD (option)
- Automatically controlled backlight with 8 steps of brightness - Manual override
- Intel 830M Integrated Graphics up to 48MB shared SDRAM

Powerful, Industry-Leading Performance

- ULV Intel Pentium III processor-M, 1.1V 866MHz standard
- 256MB - 512MB SO-DIMM SDRAM @ 133MHz
- Design compliant to PC2001/2 specification
- 2.5" rugged, shock mounted HDD (20GB - 40GB)

Wireless Radio Support

The **iX104** can accommodate up to two (2) internal, sealed wireless radios in the Rapid Configuration Bay:

- Internal Mini-PCI slot
- Internal Type II PC Card slot
- Internal OEM module bay
- 2 X Integrated frequency matched antennas (900Mhz - 5GHz)
- External Antenna pass-thru for WAN radios
- Bluetooth Radio (option - mini PCI slot)

Extended Portable Power

- Power input 9 - 18V, 3A
- ACPI 1.2, OnNow and Energy Star Compliant design
- Suspend/Resume/Save-to-Disk >60mA
- 4500 mAh Li ION Polymer Phosphate (28Whr) standard
- 9000 mAh Li ION Polymer Phosphate (56Whr) (option)
- Smart Charge
- Warm swap of main battery (suspend mode operation)
- 45mAh rechargeable bridge battery

User Interface

- Hi-Resolution Inductive digitizer HID compliant interface
- 6 key backlit keypad - Tablet PC keys and programmable
- 5-way mouse joystick

Superior Audio Quality

- Integrated AC97 Audio-Sound Blaster Pro Capabilities
- 2* 1W audio amplifier with integrated and protected stereo speakers
- Integrated Microphone

Operating System

- Windows XP Tablet PC Edition

Vehicle/Wall Docking Station

- Secure Cradle with cable harness and I/O break-out box
- Break-out box has same ports as desktop dock



Office Docking Station

- User friendly quick dock/undock function
- Available Ports on the break-out box include:
 - 1* USB 2.0 port
 - 1* 15-pin CRT port
 - 1* P1394 port
 - 1* RJ-45 LAN port
 - 1* Microphone jack
 - 1* Power jack
 - 1* Stereo headphone jack
 - 1* PS/2
 - 1* RS-232 port (DB15)
 - 1* Parallel port (DB25)

The iX104 - On-board Connectivity

- Tablet provides external connectivity via on-board Sealed Ports (IP64):
 - 1* USB 1.1 for Xplore snap-on expansion module
 - 1* USB 2.0 for Xplore snap-on expansion module
 - 1* Docking port
- Additional connectivity is provided via on-board Covered Ports (IP54):
 - 1* 10/100 BT Ethernet w/ RJ-45 port
 - 1* USB 2.0 port
 - 1* CRT port
 - 1* P1394 port
 - 2* Stereo in/out jack
 - 1* Power jack

Xplore Snap-On Expansion Modules

- Digital Camera (option)
- Finger Print Scanner (option)
- dGPS Module (option)

Accessories

- Hands Free Folio Style Carry Case
- Clamshell Rugged Carry Case
- USB Mini Keyboard
- Car Charger (CLA)

Environmental Specifications

Temperature:	According to MIL-STD 810 F, Method 501.4 & 502.4 <ul style="list-style-type: none">• Operating Temp: -20° to +60° C (-4° to 140° F)• Storage Temp: -40° to +75° (-40° to 167° F)
Enclosure Class (Rain & Dust):	MIL-STD 810 F, Method 506.4 procedure I and III Blowing Rain 4"/Hr, 40mph Wind
ESD:	EN55024 20Kv (IEC 1000-4-2) FCC Class B, Cisp 22 ANSI European CE, EN 55022
Drop & Shock:	According to MIL-STD 810F method 516.5 20g, 11ms, Terminal Sawtooth, Operating Up to 3' drop to concrete, all surfaces, edges and corners
Safety:	UL 1950 (UL 1604 upgrade option)
Vibration:	MIL-STD-810F Method 514.5 0.04g ² /Hz, 20Hz - 1000Hz -6dB/ octive 1000Hz - 2000Hz (Composite Wheeled Vehicle)
Humidity:	MIL-STD-810F Method 507.4 0% to 95% (+3/-5%) non-condensing



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