**LOGIC INSTRUMENT**

# Logic Instrument's

# TetraLight104 - Rugged Tablet PC
## Family

**AllVue TECHNOLOGY**

**Windows xp** Tablet PC Edition

**Microsoft PLATINUM** OEM

Logic's line of TL104™ rugged Tablet PCs is engineered from the ground up to withstand environmental and physical stress including temperature extremes, drops to hard surfaces, and exposure to water and dust. Models include the TL104R™ Renegade™, TL104RD™ Renegade™ Dual Mode and TL104RV™ Renegade™ AllVue™ Tablet PCs.  TL104 Renegade models provide value-based durability.

Designed, third party tested, and Xplore warranted to Military Environmental Standards (MIL STD 810F), Logic's TL104 mobile computing systems enable standard Windows-based computing and networking beyond the office and into the field, the warehouse, the public safety vehicle, or wherever mobile workers operate.  Logic's TL104 rugged Tablet PCs are cost effective alternatives to standard laptops, offering the potential for faster return on investment with greater user uptime, reduced maintenance costs, and increased user productivity.

The TL104 Dual Mode versions (TL104RD) provide enhanced functionality with both active stylus and finger touch input in a single Tablet PC unit.  Logic's offering is the first rugged Dual Mode in the industry.  It is ideal for enterprise applications and vertical market customers seeking enhanced input functionality and the convenience of multiple input methods.

TL104 tablets with AllVue technology (TL104RV) are an ideal solution for mobile workers who find themselves in the field more than in the office.  Logic displays enhanced with AllVue are not dependent on the lighting conditions to provide outstanding contrast and brightness, resulting in sharp images and clear text.

### Powerful:

- **Rugged Construction - TL104** systems have over 30 unique rugged characteristics that allow you to work free from worry that your device will be damaged in harsh environments or if it is dropped, struck, or exposed to constant vibration
- **Horsepower -** at the heart of the **TL104** is an efficient ULV Intel® Pentium® III processor-M, 4X AGP graphics accelerator, up to 48MB of video memory, amplified stereo speakers, and a long life Lithium Ion battery pack
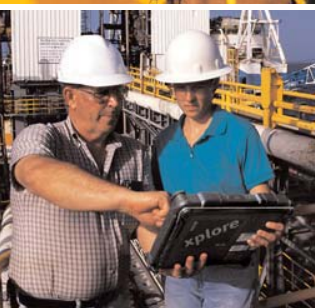
### Mobile:

- **Docking Stations - TL104** docking stations are designed for multiple working environments such as 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. With Windows XP Grab and Go capabilities allow users to quickly dock and undock their tablets without having to change to a standby or hibernation state
- **Built-in Wireless Communication -  TL104** systems have internal radio bays and performance matched embedded antennas for true mobility. Support for simultaneous wLAN, wWAN and GPS lets you work in any environment

### Versatile:

- **Enhanced Display -** whether indoors or outside, the **TL104's** XGA display can easily be seen thanks to Xplore's optical enhancement technology. Additionally, instant screen rotation provides additional flexibility in how you use your **TL104** by enabling instant screen rotation - from portrait to landscape mode - on-the-fly
- **Hot Keys -** the on-board backlit keypad is mapped to specific Tablet PC functions to allow quick access to common tasks. It also allows access to the system when a keyboard is not available for diagnostics or BIOS level upgrades
- **Dual Mode -** provides both active and resistive finger touch interface via a simple toggle feature
- **AllVue™ LCD Technology -** reduces reflectivity and glare, and increases brightness and contrast, boosting screen viewability **in all lighting conditions**

### Beneficial:

- **Return on Investment -**  businesses can potentially realize greater ROI with increased user productivity, lower maintenance and total cost of ownership, and higher user adoption rates

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## Super Rugged Construction
The **TL104** 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 against harsh environments
- Salt fog resistant enclosure
- Size: 11.20" (284.5mm) X 8.25"(209.6mm) X 1.6"(40.6mm) (WxHxD)
- Weight: Approximately 2 kg. (4.45 lbs.) with standard battery

## Xplore Optically Enhanced Indoor/Outdoor Display
- 10.4" XGA TFT Transmissive Hi-Brite LCD
- Automatically controlled backlight with eight steps of brightness - manual override
- Intel 830M integrated graphics up to 48MB shared SDRAM
- AllVue™ LCD technology for enhanced indoor/outdoor display (TL104RV)

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

## Wireless Radio Support
The **TL104** 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
- Two integrated frequency matched antennas (1 @ 900Mhz - 1.8GHz & 1 @ 2.5 - 5GHz)
- External antenna pass-thru for WAN radios via vehicle docking system
- Integrated wLAN and WAN options available (call for approved countries)
- Attachable xGPS module with WAAS correction capability

## Extended Portable Power
- Power input 9 - 26V, 3A
- ACPI 1.2, OnNow and Energy Star compliant design
- Suspend/resume/save-to-Disk
- 41 Wh Li ION battery standard
- 55 Wh Li ION battery (optional)
- Smart Charge
- Warm swap of main battery (suspend mode operation)
- 45 mAh rechargeable bridge battery

## User Interface
- Active stylus or resistive finger touch (TL104RD)
- 8 key backlit keypad - Tablet PC keys and user programmable buttons
- 5-way navigation joystick

## Superior Audio Quality
- Integrated AC97 Audio-Sound Blaster Pro capabilities
- Two 1W audio amplifier with integrated and protected stereo speakers
- Integrated noise cancelling microphone

## Operating System
- Windows XP Tablet PC Edition
- Windows 2000 Professional

## X-Dock Durable Vehicle Mounting Solutions
- Secure cradle with cable harness and Port Replicator Module (PRM)
- Available ports on the Active X-Dock PRM include:
  - 2 USB 2.0 ports
  - 1 15-pin CRT port
  - 1 P1394/IEEE (Firewire) port
  - 1 Microphone jack
  - 1 Power jack
  - 1 DB9 Power port
  - 1 Stereo headphone jack
  - 2 RS-232 ports (DB9)
  - 1 Parallel port (DB25)
- Integrated key lock on cradle
- Coaxial antenna port on cable (Active X-Dock)

X-Dock Cradle Only

## X-Stand Office Docking Solutions
- User friendly quick dock/undock function
- Available ports on Active X-Stand include:
  - 2 USB 2.0 ports
  - 1 15-pin CRT port
  - 1 P1394/IEEE (Firewire) port
  - 1 RJ-45 LAN port
  - 1 Microphone jack
  - 1 Power jack
  - 1 Stereo headphone jack
  - 1 RS-232 port (DB9)
  - 1 Parallel port (DB25)
- Integrated single battery charger (Active version)
- Integrated CD-ROM (Active version)

X-Stand

## The TL104 - On-board Connectivity
- Tablet provides external connectivity via onboard ports:
  - 1 Docking port
  - 1 RJ-45 LAN port
  - 1 USB 2.0 port
  - 1 15-pin CRT port
  - 1 P1394/IEEE (Firewire) port
  - 1 Stereo headphone jack
  - 1 Microphone jack
  - 1 Power jack

## Accessories
- Portfolio and shoulder carry cases
- USB non-rugged and rugged keyboards
- Vehicle mounting packages and accessories

## Warranty
- 1 year standard warranty
- Warranties back by independent third party testing
- Extensions available for up to three years of total coverage

## Environmental Specifications

| | |
|---|---|
| Temperature: | MIL-STD 810 F, Method 501.4 & 502.4<br>• Operating Temp: -20º to +60º C (-4º to 140º F)<br>• Storage Temp: -40º to +75º (-40º to 167º F) |
| Enclosure Class (Rain & Dust): | MIL-STD 810 F (IP54 Equivalence),<br>• Method 512.4 procedure I (moisture)<br>• Method 510.4 procedure I (blowing dust)<br>• Method 506.4 (blowing rain) |
| ESD: | EN50082-1 20Kv (IEC 1000-4-2)<br>FCC Class B, Cispr 22 ANSI<br>European CE, EN 55022 |
| Drop & Shock: | MIL-STD 810F, Method 516.5<br>• Operating: 20g, 11ms, terminal saw tooth<br>• Non-Operating: 40g, 11ms, terminal saw tooth<br>• Crash: 75g, 11ms, terminal saw tooth<br>• Up to 4' drop to concrete, all surfaces, edges and corners (26 drops) |
| Safety: | • UL, CSA<br>• IEC60950-UL 1604<br>• Class I, Division 2, Groups A, B, C, and D<br>• ATEX Zone 2, Category 3 |
| Vibration: | MIL STD 810F, Method 514.5<br>• Operating: Composite Wheeled Vehicle, random 5 Hz to 500 Hz, approximately equivalent to 1.53 grms (vertical), 1.96 grms (longitudinal), 1.60 grms (horizontal)<br>• Non-Operating: Integrity Test, random 0.04g^2/Hz, 20Hz - 1000Hz, -6dB/active 1000Hz-2000Hz, approximately equivalent to 8 grms |
| Humidity: | MIL-STD-810F Method 507.4<br>0% to 95% (+3/-5%) non-condensing |
| Salt Fog: | MIL-STD-810F Method 509.4 |
| Solar Radiation: | MIL-STD-810F Method 505.4 |

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Windows XP Tablet PC Edition

intel inside pentium III

Penabled WACOM

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