Citadel NetFORCE-12XPR™ rugged industrial computers deliver solid performance designed and engineered for challenging fixed and mobile applications.

NetFORCE-12XPR™ HARSH - ENVIRONMENT COMPUTER

Citadel NetFORCE-12XPR™ rugged industrial computers deliver solid performance designed and engineered for challenging fixed and mobile applications.
Our NetFORCE-XPR™ series of rugged industrial computers represents years of field-proven refinement driven by our commitment to deliver market-leading performance, reliability and value.

These rugged fully-sealed systems deliver reliable horsepower in your most challenging harsh-environments. Their advanced 64-bit quad-core CPU, high-performance graphics, ‘glove compatible’ touch screen and bright high-visibility displays offer an outstanding level of performance and operator convenience.

A wide-input DC-power system with battery backup keeps your applications up-and-running. NetFORCE-XPR™ systems withstand extremes of temperature, physical shock, vibration and environmental contaminants common to heavy industrial and weather-exposed installations.

- Advanced 64-bit quad-core CPU supporting 16-Gbytes DDR3 DRAM
- Enhanced 12.1” XGA display / 1024 X 768 / 16-million colors
- Intel dual-band Wi-Fi - 802.11abgn / 802.11ac / Bluetooth v4.1 / CCX
- Industry standard 10/100/1000 Industrial Gigabit Ethernet
- 12/24 - 60 VDC power system with internal UPS battery back-up
- Fully sealed NEMA-4 / IP-66 water-tight die-cast aluminum enclosure

- Rugged, fast solid-state 256-Mbyte+ SSD mass storage
- High-resolution ‘glove compatible’ touch screen
- Rugged, high-performance ‘no break’ flexible antennas
- mini-PCI Express expansion slot [CANBUS / GPS / custom I/O, etc.]
- Cold-start system preheater and integrated ‘no frost’ display options
- O/S compatibility: Windows 7 Pro/WES, Windows 10 IoT / Linux, etc.
**System CPU and Memory**
Advanced QUAD-CORE 64-bit CPU supporting up to 16-GB DDR3 System DRAM

**Enhanced LCD Display & Touchscreen**
- Resolution: 1024 x 768 XGA --- Brightness Enhanced / Sunlight readable options
- Viewing Area: 12.1” diagonal with high-resolution ‘glove compatible’ touchscreen
- Video-blanking: automatic vehicle in-motion screen-blanking fully-supported

**Mass Storage and Networking**
- High-performance SSD: 256-Mbytes (or more)
- Wireless Networking: INTEL dual-band 802.11a/b/g/n / 802.11ac / Bluetooth v4.1 / Cisco CCX
- Industrial Gigabit Ethernet: 10/100/1000 (cabled)

**System Expansion**
- Internal mini-PCI Express slot accepts industry standard options for I/O expansion such as: CANBUS / GPS navigation / analog & digital I/O, etc.

**Fully-sealed NEMA-4 / IP-66 Power & I/O Industrial Interconnects**
- Power ON/OFF | DC-PWR IN | Keyboard & mouse | Dual USB | Industrial Ethernet
- Optional External Horn | RS-232 COM ports | External Coax Antenna Connector, etc.

**Input Power**
- 24 to 60 VDC (nominal)
- 12 VDC with optional cable adapter
- 72 VDC & above (multiple high-voltage options)
- 90-220 VAC 50/60 Hz. Universal AC Adapter
- Total Input Power: < 60 watts (maximum) / Internal UPS (standard)

**Environmental Specifications**
- Rating: UL50E Type-4 / NEMA-4 / IP-66
- Temperature: -20 C to +50 C (operating)
- Humidity: 0% - 95% (non-condensing)
- Vibration: MIL-810F 2.0 G (15-1000 Hz.) (operating)

**Mechanical Specifications**
- Mounting: 2.5” Flex-mount ball and 75mm VESA mount
- Width: 12.00” (30.50 cm)
- Height: 9.50” (24.13 cm)
- Depth: 2.50” (6.35 cm)
- Weight: ~8 lbs. (3.64 kg) (typical)

**Rugged aluminum enclosure fully sealed to NEMA 4 / IP-66**

**Accepts 2.5” Flex-mount mounting-ball & arm**

**Industry standard 75mm VESA mount**

**Fully sealed power and I/O certified to NEMA 4 / IP-66 with custom I/O options available**
Since 1979, Citadel Computer Corporation has focused on the design and manufacturing of rugged industrial computers for challenging harsh-environment industrial and military applications.

Our systems combine state-of-the-art processing technology with practical real-world engineering to deliver reliable computing horsepower that withstands extremes of temperature, physical shock, vibration and exposure to the elements.

As reliable platforms performing a wide spectrum of tasks, Citadel systems are in service around globe supporting advanced processes, research and control for many of the world’s leading companies.

CITADEL COMPUTER CORPORATION
16 Columbia Drive
Amherst, NH 03031-2304 USA

TEL: 603-672-5500
FAX: 603-672-5590
www.citadelcomputer.com

The specifications, performance characteristics and information contained herein are believed to be complete and accurate at the time of publication. However, Citadel Computer Corporation offers ongoing product improvements and expressly reserves the right to correct, update and/or modify product specifications without prior notice.


All rights reserved.

United States and international patents pending.

© 2019 CITADEL COMPUTER CORP. / NF12XPR - 2019A