

## Rugged Transport Case

Our rugged systems come in transport cases with removable shock racks that are available in 7 sizes: 3U, 4U, 5U, 7U, 9U, 11U & 14U.

- Completely removable rack frame
- Meets or exceeds MIL-STD 810G
- Standard 19" Rack width per ANSI/EIA-310-C
- Square hole rack rails to accommodate either #10-32 US std or 6mm cage nuts

- All hardware black powder coated stainless steel
- Comfort grip spring loaded lift handles
- Automatic pressure relief valve standard
- Hangers to hold covers to case sides
- Designed to stack with other manufacturers cases
- Built-in straps for stacking cases

## 1U Ultimate Power Source UPS

Energy Technologies Inc. designs many rackmount UPS for use aboard aircraft or in ground based operations. These units provide global power and can even output 50/60 Hz from aircraft 400 Hz input or vice versa.

ETI's new more powerful 1U high UPS provides a full 13 minutes of backup time at 2000 Watts or 26 minutes at 1000 Watts. This UPS is equipped with an ETI Lithium Iron Phosphate hot-swap battery module. It can be configured for either single phase or three phase applications including field swappable N+1 applications with the ability to parallel up to 32 units. Several options are available to support your applications such as AC and/or DC Inputs, AC and/or DC Outputs, custom output configurations. More details can be found at: [www.UltimatePowerSource.com](http://www.UltimatePowerSource.com)



## In Summary

Core Systems and ETI have partnered to create a cutting edge computing solution for users in harsh environments. Combining rugged high-performance computers and high reliability power conditioning with temperature and humidity control in deployable shock-isolation case provides the ultimate solution for operating vital equipment in challenging tactical situations.

## About Core Systems

Core Systems is a premier provider of both custom and COTS rugged integrated systems for the industrial, embedded and military market places. Core Systems' solutions include a complete line of MIL-Spec rugged rackmount computers from 1U to 6U in height and small form factor (SFF) tactical computer systems for flight or mobile applications. Core also manufactures panel mount and rack mount single and multi-panel rugged displays in 19" to 42" sizes.

Each product is tested to strict military standards for enhanced ruggedness and reliability. Core's mission critical systems are deployed all around the world in the most severe of environments.



## Contact Core Systems

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## About Energy Technologies, Inc.

Energy Technologies, Inc. (ETI) has been working closely with the defense industry for the past 20 years developing innovative power solutions to meet their myriad of requirements and application scenarios. This includes AC & DC power conditioning, backup power systems, power generation & computing. Each product is available in standard and custom designs in both portable or stationary versions. Tens of Thousands of these products are currently deployed around the world on the land, sea and air by America's armed forces, Homeland Security and other industries.



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# RUGGED COMPUTER SYSTEMS



**Energy Technologies Inc.**

Rugged Power ♦ Global Solutions

[www.RuggedComputerSystems.com](http://www.RuggedComputerSystems.com)

## Integrating Computing, Power & Cooling into One Rugged Portable System:

Reliable computer operation has become vital to many segments of our daily lives. This is especially true in critical defense and industry applications where even momentary interruptions of computer functions can cost large sums of money or even endanger peoples' safety. However, the reliability of any computer is no greater than its power source. In fact, the number one cause of hardware related computer outages or failures are directly or indirectly related to power. The reliability of a computer is further jeopardized when operated in harsh environments where the power sources are poor, the temperature and humidity extremes may cause component failures and mechanical shock from transport may physically damage the equipment.

Core Systems and Energy Technologies, Inc. have teamed to offer Rugged Computer Systems™ as a total turnkey solution for highly reliable operations over a wide range of power and environmental conditions.

### Advantages

- Both Core Systems and Energy Technologies are well established in the military and industrial markets with rugged, high-reliability products
- Between the two companies' product lines, complete system solutions can be configured for a wide array of applications
- Both companies can offer standard or custom engineered system or sub-system configurations that meet applicable Industry and Mil Standards
- Integrating all sub-systems into one turnkey unit minimizes setup time, logistics and cost
- Global AC and DC inputs allow operation from any local power grid, generator, vehicle or aircraft
- Optional long duration battery backup and renewable energy sources
- Total system mounted securely, protected from mechanical shock and vibration
- Available built-in cooling can extend operating temperatures beyond the standard -20°C to +70°C

**Our Rugged Computer Systems are available in Configurations to Fit Your Application**

## Rugged Industrial Computers Built by Core Systems

### Rugged Servers

Core rugged computers successfully meet MIL-STD-810F, MIL-STD-810G, MIL-STD-461F, and MIL-S-901D. Offering a wide variety of customizable options based upon customer applications, Core rugged systems are frequently trusted in ground vehicles, aircraft, and shipboard applications.



### Rugged Displays

Ranging from ultra short depth 1U rack mounts to side-by-side multi-displays to 8U widescreen panel mounts, Core Systems' rugged LCDs come with lightweight all-aluminum construction, DVI and VGA inputs, and a wide variety of customizable options including keyboards, KVMs, and touch screen options.



### Tactical Computing

Core Systems has a complete line of small rugged tactical computers. Each small, lightweight computer is conduction cooled and made for deployment into extreme temperatures and extreme shock/vibration zones. CPUs range from Core i7 to Core 2 Duo with I/O options for MIL-1553, CAN Bus, GPS and more.



### Custom Products

Core Systems continually develops new, innovative custom solutions for unique customer needs. Core can customize any product to meet the needs of a particular program or installation. Core's expert systems engineering team, coupled with their rapid response prototyping capability uniquely positions Core Systems as the leading rugged systems provider to the modern warfighter.

## Rugged Computer Features

Core Systems rugged computers are configured to meet your tactical needs. Core also offers a number of vital components including chassis, motherboards, SHBs and backplanes.



### Core Rugged Computers Offer:

- Ultra-Rugged system designs
- Low total system wattage
- Superior system cabling/air flow
- Low acoustic dB Levels
- Customization options
- Standard 2 Year warranty

### Core Rackmount Displays Offer:

- Lightweight all aluminum construction
- Multiple keyboard options available
- Multiple KVM options available
- Both DVI and VGA inputs

## Uninterruptible Power Systems (UPS)

ETI offers power solutions that meet the demands of these rugged computers.

- True online design with computer grade or medical grade power for critical loads
- Input voltages: 85-270 VAC auto selectable
- Input voltages: 12, 24, 48 or 72 VDC
- Power factor correction: up to > .99
- Output voltages: 120-240 VAC, 3.3-125 VDC
- Output power ratings: from 1 to 24 kVA
- Brownout, blackout, overvoltage protection
- Monitoring & control: RS-232, SNMP, WAN, 10Base-T, HTTP & Telnet
- Rackmounts, briefcases, transit cases, NEMA & custom enclosures/form factors
- Options:
  - Integrated PDUs
  - Additional batteries for up to 24 hrs. of run time
  - Galvanic isolation
  - MIL-STD compliant
  - EMI protection
- All weather operation

