

Fusion CE

Ruggedized COM Express™ Computer

Product Description: Built to support different processor cores from numerous COM Express™ manufacturers, the Fusion CE computer allows users to upgrade to the newest COM Express™ modules to take advantage of technological improvements in processors, chip sets, and memory. The Fusion CE Computer was developed by Naval Surface Warfare Center, Dam Neck, in partnership with W R Systems, Ltd. The Fusion CE supports numerous programs to include the Integrated Tactical Mobility System (ITMS): a small-craft, integrated bridge system which provides navigation and tactical information for the special operations forces operating in extreme environments. Fusion CE is also currently being deployed to support the US Southern Command Operation Enduring Friendship's Over the Horizon Tactical Tracking System (OTHTTS).

Features

- Operates in extreme, harsh environments
- Duo Core™ processing capability
- Obsolescence-resistant
- Supports multiple operating systems
- Extremely small form factor

Computer Specifications

- 2.2 GHz Intel® Core 2 Duo T7500 Processor (2 x 2.2 GHz, 800 MHz FSB, 4 MB cache 65 nm)
- 4 GB Memory
- Mobile Intel® 965GM Express Chipset
- Gigabit Ethernet (1000Base-T)
- IEEE 1394 ("Firewire®")
- 6 USB 2.0 ports (high-current port options available)
- Mobile Intel® Graphics Media Accelerator (GMA) X3100 graphics (QXGA resolution of 2048 x 1536 at 60 Hz)
- Intel® high-definition audio
- Internal hard disk drive options
 - Single or dual * up to 250 GB internal mechanical drives with optional drive heater
 - Single or dual * up to 416 GB solid state drives (optional solid state drive zeroizing capability controlled by I2SMCU)
- RS-232 serial port
- Intelligent Integrated System Monitoring and Control Unit (I2SMCU)
 - Regulates external forced convection cooling and internal drive heaters, monitors external peripheral temperatures, controls heaters, monitors supply and internal voltages, has solid state drive zeroizing and a Human Machine Interface (containing system startup/shutdown, reset, battleshort capabilities and an error code status light)
- External forced convection cooling using optional waterproof 60 mm blower
- A Computer-on-Module (COM) Express™ solution
 - Supports multiple different processor cores from numerous COM Express™ module manufacturers
 - Supports field processor core upgrades to utilize emerging and future COM Express™ modules and takes advantage of newer processors, chip sets, and memory technologies as they become available



Operating Systems: Windows XP, Vista, Vista x64, Linux, and others

Input power: 18-32 V (37-65 watts)

Physical size: 6.0" x 5.25" x 2.0"

Weight: 2.75 lbs

Operational Temperature: -20 to 55 C

Interfaces: Two D38999 connectors

Environmental: Air-tight sealed enclosure (waterproof), IP67 Compliant, Survives 30 G shock and Sea State 5

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