

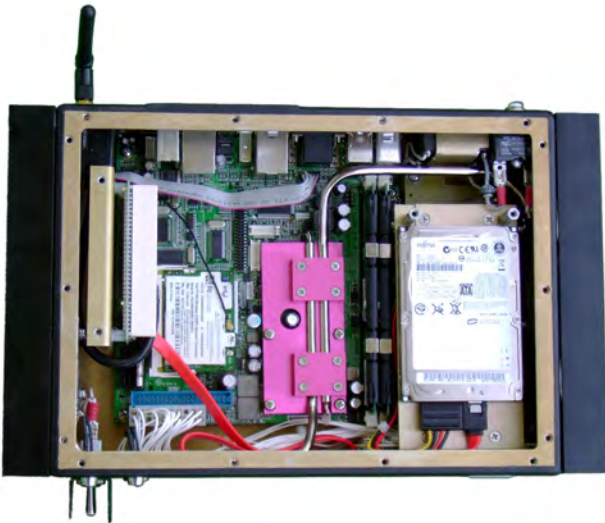
## MD-945-DUO

### *Embedded Dual Core System*



**MicroDISC** introduces the first in a series of embedded image acquisition and processing systems targeted at markets requiring Dual Core Processing for harsh environment computing.

Designed using the **INTEL Core Duo Processor** technology and mini ITX form factor single board computer motherboards. The **MD-945-DUO** is designed to bring high end computing along with image acquisition to those application areas that require their "vision system" to be capable of operating in harsh conditions.



The MD-945-DUO utilizes a "fanless" heat exchange technology for removing heat from the surface of the Dual Core Processor and system chipset. This allows the system to be nearly 100% solid state and 100% solid state when the application allows for the user to incorporate a solid state hard disk drive as a replacement for the 2 1/2" form factor notebook drive.

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# MD-945-DUO

## System Specifications

**CPU Socket** Socket 478

**CPU** Supports INTEL® Core Duo processors  
Up to 2.33GHz

**CPU Front Side Bus (FSB)** 533Hz / 667MHz

**Chipset** INTEL® 945GM chipset

**BIOS** Award BIOS, ACPI supported

**System Memory** Two DDR2 sockets supports up to  
4GB, DDR SDRAM, PC400/533/667 DDR SDRAM

**Integrated VGA** INTEL® 945GM integrated VGA for  
CRT/TV out, Supports DVMT 3.0 for memory allocation

**VGA Options** Optional single/dual DVI cards with  
connectors on card or via cable

**Primary LAN** ICH7M integrated 10/100 BaseT Ether-  
net

**Secondary LAN** Marvell 88E8053 PCI Express Gigabit  
Ethernet

**Wireless LAN** Optional 802.11 a/b/g Wireless LAN

**Audio** ICH7M integrated audio with AC97 codec,  
Onboard NS LM4950 amplifier

**Serial Ports** Two RS-232 ports

**Serial ATA** Supports 2 ports

**1394** Supports 2 ports (TI TSB43LV22)

**USB (2.0)** Supports 6 USB ports (4 ports + 2 ports via  
pin header)

**Keyboard and Mouse Connector** PS/2 type

**Watchdog Timer** Generates system reset; 256  
levels

**Hardware Monitoring** Built in W83627EHF;  
monitors system/CPU temperature and voltage  
status

**Digital I/O** 4 in / 4 out



**Expansion Slots** 1 PCI (Requires custom I/O  
bracket, contact us for details.

**Optional Boards currently available for  
PCI slot:**

- A PC CAN-Bus Board
- B Dual-Channel Analog Frame Grabber
- C 3-Input FireWire board
- D Giga-Bit NIC
- E Base Camera Link Frame Grabber

(Contact us for detailed information on the  
above boards.)

**Edge Connectors** VGA CRT, PS/2 KB/Mouse Mini  
DIN, two RJ-45, two 1394, SPDIF, four USB, RCA,  
S-Video, COM1, COM2

**Weight** 8 lbs

**Dimensions** 13"W x 3"H x 8"D

**Environmental Factors**

Operating Temperature: 0°C~60°C (32°F~140°F)  
Storage Temperature: -20°C~80°C (-68°F~176°F)  
Relative Humidity: 10%~90% (non-condensing)

*Please contact us for ordering and pricing  
information.*

**MicroDISC**  
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