



# UNICORN COMPUTER CORP.

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## ENDAT-9402F / H

### Specifications

#### CPU:

Support socket 478 Intel Core 2 Duo / Core Duo / Core Solo  
socket 478 PIN CPU with 667/533MHz FSB

#### Chipset:

INTEL 945GM + ICH7-M

#### BIOS:

Award Flash BIOS

#### System Memory:

One 240 pin DDR2 DIMM socket accepts 667/533/400MHz up  
to 2GB

#### Enhanced IDE interface:

One IDE channel supports up to 2 EIDE devices (1 x 40-pin),  
UDMA 33/66/100 mode and BIOS auto-detect

#### Serial ATA (SATA) interface:

Support 2 ports 300MB/s SATA device.

#### Display Controller:

- **Chipset:** Intel Graphics Media Accelerator (Intel GMA950)  
with DVM T 224MB (max)
- **Dual view:** CRT + DVI or **DVI + DVI**
- **Display Type:**
  - CRT
  - DVI Transmitter up to 165M pixel/second
- **Display ratio:** 4:3 and 16:9
- Support CRT resolutions up to 2048x1536

#### Audio Controller:

- **Chipset:** INTEL ICH7-M w/ AC'97 2.2 compliant,  
Multi-Stream Direct Sound and Direct Sound 3D  
acceleration
- **Speaker out with 1.2W amplifier**
- **Phone-jack:** Speaker-Out, MIC-In, and Line-In
- **Pin header:** Speaker-Out, MIC-In, CD-In and Line-In

#### Digital I/O:

4 bit input/output (TTL level) by pin header

#### Network Interface:

- 1 x REALTEK RTL8111B PCI-E Gigabit chip
- 10/100/1000 Base-TX, Full duplex with RJ-45 connector
- Compliant with IEEE 802.3X

#### High Speed Multi I/O:

- **Chipset:** Winbond W83627HG
- **Serial Ports:** 2 high speed RS-232 ports and 1 high speed  
RS-232/422/485 port (*via 2<sup>nd</sup> COM as option*) support  
16C550 UART, 16-byte FIFO (9401H boards by box  
headers), and with +5V, +12V power selector.
- **Parallel Port:** 1 Bi-directional parallel port supports  
SPP/EPP/ECP mode with pin header
- **USB Ports:** 6 ports with 2.0 compliant
- **Infrared Port:** 1 IrDA TX/RX port with pin header
- **Keyboard / Mouse:** Support PS/2 keyboard and mouse  
with onboard connector (9401H boards by pin headers)
- **Watch Dog Timer:** Programmable 1~255 seconds / minutes

#### Power management:

ACPI Mode

#### Real Time Clock:

On chip RTC with external Li Battery backup

#### On board Bus Expansion:

- One PCI expansion with PCI 2.2 compliance
- One Mini-PCI socket onboard (**Optional**)

#### Board Dimension:

5.25" SBC form factor, 203 mm x 146 mm (7.9" x 5.7")

#### Power Types:

Standard ATX power

#### Operating Temperature: 0 ~ 60°C

### Ordering Information:

#### Options for ENDAT-9402F and ENDAT-9402H:

- Mini-PCI socket
- RS422/485 (by COM 2<sup>nd</sup>)

#### Spot light:

- **Dual view by CRT + DVI or DVI + DVI**
- **support Wide screen 16:9**
- **All I/O ports on ENDAT-9402H boards are  
reserved as box headers or pin headers except  
LAN/DVI**