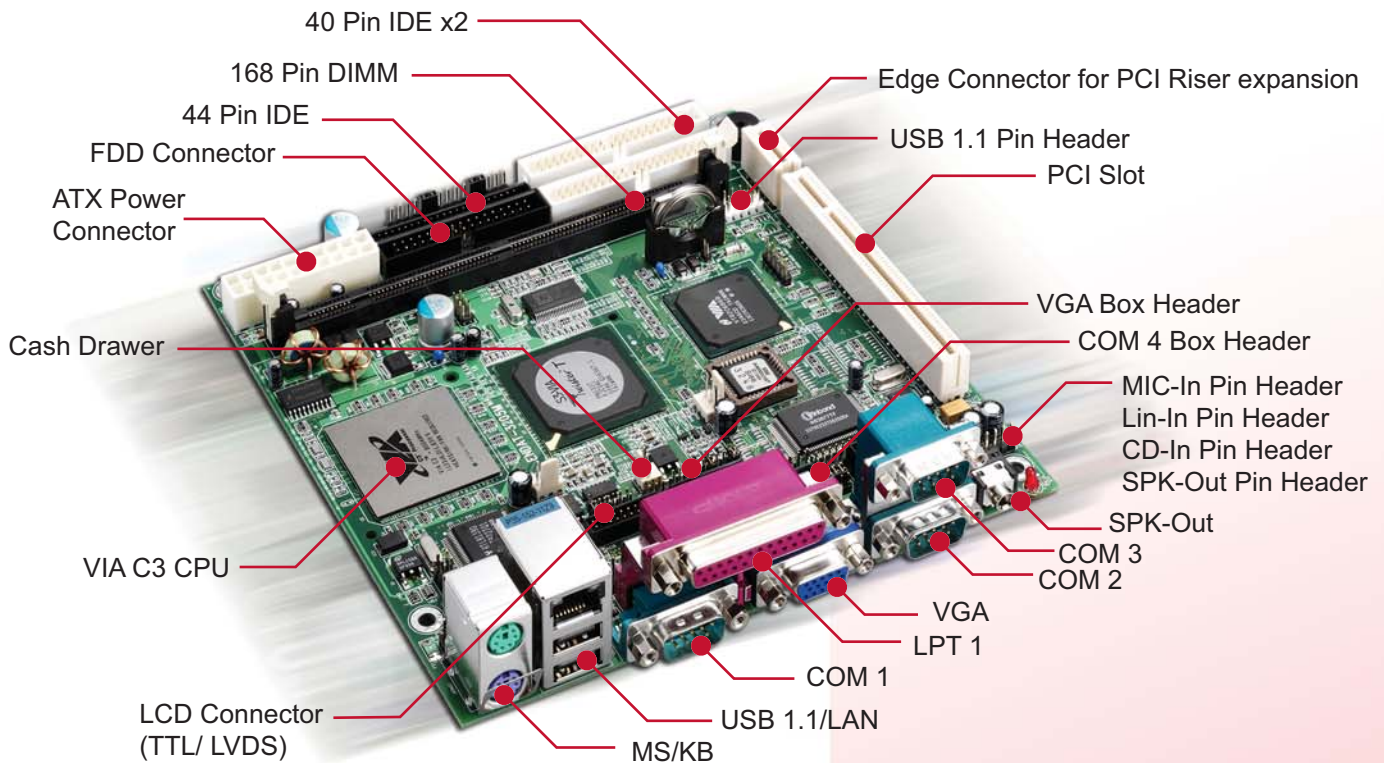


Mini-ITX format system board with Low Power Consumption CPU for embedded systems



ENDAT-3205M

With its strong support of display and integration of digital I/O, ENDAT-3205M is an industrial grade PC-based Mini-ITX format system board ideally for POS and other embedded system applications.

- Features

System Chipset: VIA VT8606-TWISTER T + VT82C686B
 CPU: Embedded VIA CPU from fan-less 533MHz up to 1GHz (w/FAN)
 Memory: 1 DIMM Socket support up to 512MB
 LAN: Option of Realtek 8139D or Intel 82551QM/ER
 VGA: On chip 2D / 3D Graphic Controller w/ SMA up to 32MB
 LCD: TFT (TTL) LCD panel/ LVDS features
 RS-422 / 485 via COM2 (optional)
 I/O: 4 COMs w/ +5V, +12V selector; 1 LPT; 4 USBs 1.1 compliant
 6 bit input and 2 bit output Digital I/O
 2 Cash Drawer driver onboard
 Mini ITX: 170mm x 170mm



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ENDAT-3205M

Specifications

a CPU

- Onboard VIA C3 Processor with 128KB Level 1 and 64KB Level 2 Cache with FSB 66/100/133MHz EBGA Package:
- CPU w/ FAN: C3 800MHz (Standard version)
 - CPU w/ FAN: C3 1GHz (Optional)
 - CPU w/o FAN: EDEN 533MHz (Optional)

b Chipset

VIA VT8606-Twister T North Bridge with integrated 2D/3D Graphic Controller and VT82C686B Super I/O South Bridge

c BIOS

AWARD Flash BIOS

d System Memory

One DIMM socket accept up to 512MB SDRAM

e Enhanced IDE interface

- Two 40-pin box header support up to 4 EIDE devices, Ultra DMA transfer 33/66/100 mode and BIOS auto-detect
- One 44-pin 2m/m box header support 2.5" IDE devices (Shared IDE 1)

f Display Controller

- Chipset: On VT8606-Twister T chip 2D/3D Graphic Controller with SMA up to 32MB
- Display Type: CRT
 - TFT with TTL: 18bit, 24bit, 36bit LCD panels
 - TFT with LVDS: 18bit, 24bit, 36bit LCD panels (24bit is optional)
 - DSTN with TTL: 8bit, 16bit, 24bit
- LCD Panel Resolution: 640 x 480; 800 x 600; 1024 x 768; 1280 x 768; 1280 x 1024
- Display ratio: 4:3 and 16:9

g Audio Controller

- Chipset: VIA VT82C686B, AC'97 2.0 compliant, Multi-Stream Direct Sound and Direct Sound 3D acceleration
- Interface: Speaker-Out onboard phone-jack with 0.25W amplifier; Speaker-Out, MIC-In, CD-In and Line In via onboard pin header

h High Speed Multi I/O

- Chipset: VIA VT82C686B integrated Super I/O
- Serial Ports: 4 high speed RS-232 ports with 1 high speed RS-232/422/485 port (via COM2 as option), all 4 serial ports support 16C550 UART and 16 byte FIFO, and with +5V, +12V power selector
- Parallel Port: 1 Bi-directional parallel port support SPP/EPP/ECP mode
- USB Ports: 4 ports with 1.1 compliant
- Infrared Port: 1 IrDA TX/RX port with pin header
- Keyboard / Mouse Connectors: Support PS/2 keyboard and mouse with onboard connector and pin header reserved onboard



i FDD interface

- Support up to two Floppy Disk Drives

j Digital I/O

- 6 bit input and 2 bit output (TTL level) by pin header

k Cash Drawer

0V / +12V output

l Network Interface

- Chipset: Realtek 8139D or optional for Intel 82551QM/ER (No boot ROM function)
- 10/100 BaseT / TX support, full duplex with RJ-45 connector onboard
- Compliant with IEEE 802.3X
- Boot from LAN function (Not include 82551ER)

m Power management

Supports power saving modes including APM 1.2 compliant

n Real Time Clock

On chip RTC with external Li Battery back up

o On board Bus Expansion

One PCI expansion with edge connector for up to 3 PCI slots expansion via riser card with PCI 2.2 compliance

p Board Dimension

Mini-ITX form factor,
170 m/m x 170 m/m (6.69" x 6.69")

q Power Types:

Support standard ATX power supply

x Operating Temperature: 0 ~ 60°C

Ordering Information

s ENDAT-3205M-1R-8

with Realtek LAN + C3 800MHz CPU

t ENDAT-3205M-1i-8

with Intel LAN + C3 800MHz CPU

