

Thunderbird-E3100

Mini-ITX Single Board Computer, Server Class Chipset
Intel® Core™ 2 Duo Processor



Features

Intel Core 2 Duo processor
with Intel E3100 server class chipset

Max. 8 GB DDR2-400 ECC RAM

VGA, LVDS, Graphics up to 1600 x 1200 pixels

2 x Gigabit LAN, 6 x USB 2.0

6 x SATA

2 serial ports

Specifications

Board Format Mini-ITX,
170mm x 170mm (6.69" x 6.69")

Processor Intel Core 2 Duo T7500
Intel Core 2 Duo T9400

Speed T7500: 2.2GHz
T9400: 1.9GHz

Core Logic E3100 server class chipset
Integrated I/O Controller Hub IICH

RAM (max.) 8GB DDR2 registered ECC

RAM clock 400MHz

Graphics Volari Z9M GPU
16MB DDR RAM

CRT Analog VGA
1600 x 1200 pixels

USB 4 x USB 2.0 host external
2 x USB 2.0 host internal

Ethernet 2 x 1000/100/10 MBit with
- Intel 82574IT
- 82573V with ASF

Serial 2 x RS232/RS422/RS485

SATA 6 AHCI ports available

Watchdog Yes

Status LED HDD, power, standby, power mode,
watchdog, MiniCard, Ethernet

Operating temperature 0°C...+60°C (commercial, all versions)
-20°C...+60°C (industrial, all versions)

PCI Express Bus 2 PCIe x4 slots
1 PCIe x1 Mini Card

RTC Backup Battery on board

Power Supply 12V ±5% or
ATX power supply +3.3V, +5V, +5VSB,
+12V

Power Consumption *Maximum* 47 watts
Average 37 watts
Idle 26 watts

Cooling Active

MTBF 178 802 hours at 25 °C

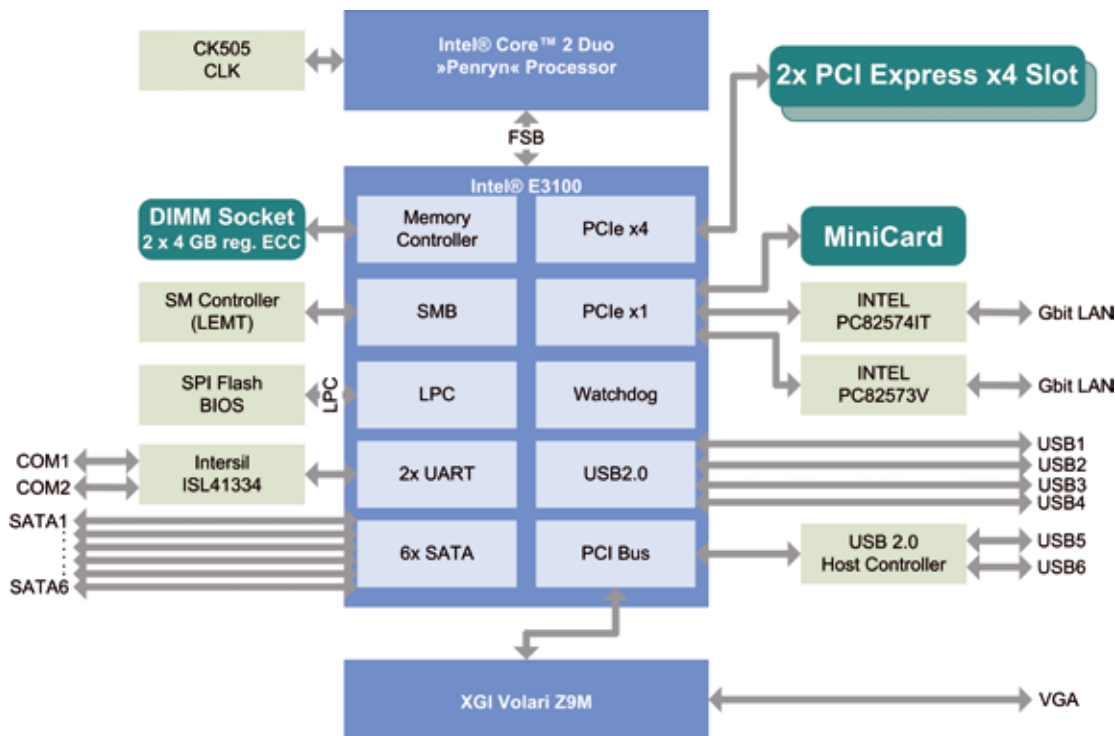
BIOS Award BIOS
BIOS parameters are also saved in
EEPROM

Supported OS Windows XP, XP Embedded,
Windows Server 2003, Linux.
32 and 64 bit versions are supported.

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Block Diagram



Ordering Information

Ordering Number	Description
t05-0010-11	CPU module with Intel Core 2 Duo T7500 (2.2GHz) and E3100 chipset. Includes support CD.
t05-0010-10	CPU module with Intel Core 2 Duo T9400 (1.9GHz) and E3100 chipset. Includes support CD.

Note: t denotes the temperature range. Use 7 for commercial and 8 for industrial temperature range

Other configurations and temperature qualifications are available on request. Minimum order quantities apply.