

TC2D64 Dual Core VME64x Computer

Based on the Intel® Core 2 Duo Processor

Themis Computer's TC2D64™ is a new 6U VMEbus computer based on the Intel Core™ 2 Duo Processor. Operating system support includes Solaris® 10 as well as Windows® and Linux®.

The TC2D64 utilizes 2.16 GHz and 1.5 GHz Intel® Core 2 Duo processors. An on-board 64-bit PMC Slot allows expansion using a wide variety of PMC cards.

The cost-effective TC2D64 in a single-slot configuration features two Gigabit Ethernet ports, graphics and a single 64-bit/66MHz PMC slot. Memory is expandable to 4 GBytes of DDRII ECC memory. The PMC slot can be used for local I/O or graphics expansion with Themis' optional TGA-7000™ 2D/3D color graphics card. Optional PMC or XMC I/O expansion boards, occupying a second VME slot, significantly extends I/O capability.

TC2D64 Features and Specifications

- Processor: Intel® Core 2 Duo Processor with clock rates of 1.5 GHz to 2.16 GHz
- Memory: Up to 4 GBytes DDRII SDRAM
- Flash Memory: 1 MByte, (512 KB for BIOS, 512 KB User)
- Error Detection/Correction: 8-bit ECC to main memory provides single error correction & double error detection.
- 1.5 GHz version fits in one VME slot
- CompactFlash™ Type 1 or 2 Socket

Operating System Support

- Solaris® 10
- Linux®
- Microsoft Windows®

VME Interface

- Tundra Universe II VME64x interface
- Injectors/Ejectors: VME64 and traditional VME available

On-Board PMC Expansion

- One 64-bit/66MHz PMC slot on board
- Support for optional Themis TGA-7000 graphics adapter

TC2D64 with Carrier Card

- Up to 3 extra PMC slots or 2 XMC slots

Power and Mechanical

- Cooling: 10 CFM at 10,000 Ft
- Dimensions (HxD): 6U 6.299" (160mm) x 9.173" (233mm)

Front Panel (FP) and VME P2 (P2) Connector I/O

I/O	Quantity	Access
Gb Ethernet	2	Front Panel
USB	4	2 USB on Front Panel, 2 USB on P2
Serial Ports	4	COM1 & COM2: Front Panel COM3 & COM4: P2
SATA II	2	1 on Front Panel, 1 Front Panel or P2
Keyboard & Mouse		USB: Front Panel & P2 PS/2: P2
VGA Graphics	1	Front Panel

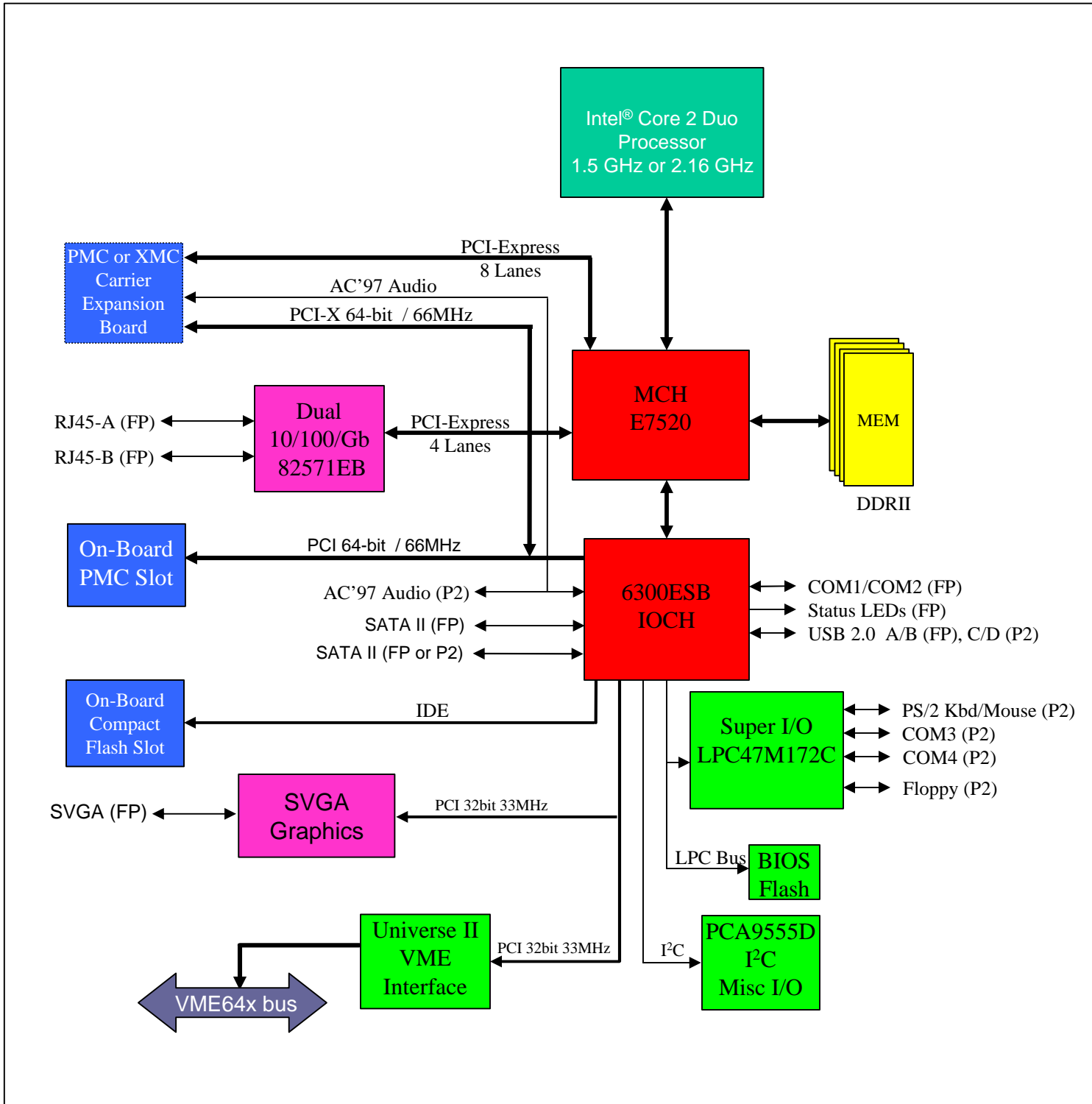
Environmental

Parameter	Operating	Non-Operating
Temperature Range	-5 to +55°C	-40 to 95°C
Humidity (non-condensing)	0 to 95%	
Shock	30G @ 40mS	30G @ 40mS
Vibration (10-2000Hz)	0.90G (rms)	2.97G (rms)

THEMIS



TC2D64 Block Diagram



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