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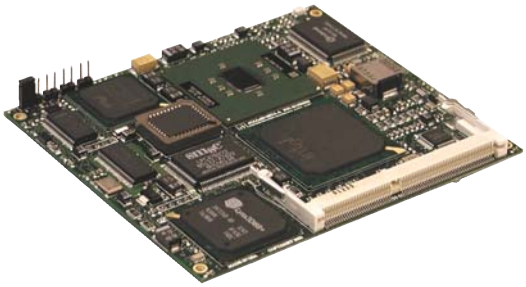
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eTX-Lx05



ETX Embedded Computer Module



The eTX-Lx05 embedded computer module, part of DTI's embedded product offering, features either an Intel® Pentium® III or Celeron® low power processor, the Intel® 815E chipset, and up to 512MB PC100/133 SDRAM on a single 144-pin SODIMM socket. The integrated 2D/3D AGP4X video controller is enhanced with a 8MB display cache simultaneous LVDS, digital flat panel and CRT output; the integrated AC'97 2.1 controller and CODEC provide excellent audio quality. The 10 Base-T/100 Base-TX Ethernet and Ultra ATA/100 EIDE controllers support fast data/file transfer; four Universal Serial Bus (USB), two serial, and one shared, selectable parallel/floppy port round out the basic board.

DTI's eTX-Lx05 is a cost saving computing module solution that addresses embedded requirements for the medical, COTS military/defense, automotive, transportation, gaming, test & measurement and Internet markets. The board combined with the FlexATA-compliant I/O base board supports time-to-market sensitive applications. The small thin form factor and the scalable performance configurations support both the PCI and ISA bus architectures.

The eTX-Lx05 AMI BIOS, in field upgradeable Flash, supports software Ethernet option ROM enable/disable, video override, serial/parallel port re-mapping/disable, keyboard disable, and console redirection. Other features include hardware monitor (input voltages, temperature), programmable two-stage watchdog timer, battery-backed real time clock, power fail circuit, SMBIOS v2.3.1 and S.M.A.R.T. support.

Highly configurable. Low power. Embedded application robustness. Long production life. Diversified Technology's eTX-Lx05 industrial embedded computer module is a versatile processor solution with its System-On-Module (SOM) design to meet the cost effective and space limited requirements of the embedded market.

Product Features

Form Factor
ETX Computer Module based on the Intel® Pentium® III processor or the Intel® Celeron® processor

CPU/Cache
- Pentium® III processor - 800/933MHz with 512KB L2 cache, uFCBGA
- Celeron® processor - 400/650MHz with 256KB L2 cache, BGA2
- Intel® 815E chipset

Bus Interface
- 100/133MHz FSB; 33MHz PCI Busses

Memory
Up to 512MB using 64/128 x 72 3.3V single or double-sided PC100/PC133 SDRAM

I/O
- 4 USB Ports
- 2 Serial Ports
- Parallel Port
- Floppy Disk support
- PCI Ultra ATA/100
- PCI 10 Base-T/100 Base-TX Ethernet

BIOS
- PCI 2.2 compliant field upgradeable AMI BIOS

Physical Dimensions:
- 4.49” x 3.94” x 0.47” at CPU/fan

OS Support
Windows 98, Windows ME, Windows NT, Windows 2000, Windows XP, Red Hat Linux, Solaris, QNX, UnixWare

Warranty
Parts and labor covered for 2 years

www.dtims.com • sales@dtims.com • 1.800.443.2667

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An Ergon Co.

Rev 1.1 • 11-16-2005

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CPU / Cache
- Pentium® III processor - 800/933MHz with 512KB L2 cache, uFCBGA
- Celeron® processor - 400/650MHz with 256KB L2 cache, BGA2
- Intel® 815E chipset
- ICH2 I/O Controller

Bus Interface
- 100/133MHz Front Side Bus; 33MHz PCI Busses
- Supports four 32-bit/33MHz slots

Memory
- One 144-pin latching right angle SODIMM socket (1" or 1.25" modules)
- Up to 512MB using 64/128 x 72 3.3V single or double-sided PC100/PC133 SDRAM

Data Path
- 64-bit, 100/133MHz on CPU and memory bus
- 32-bit/33MHz on off-board PCI bus; 32-bit/33MHz on onboard PCI bus

Flash Memory
- 8 Mb (1 MB) Flash for BIOS field upgrade

I/O
- Four USB Ports
- Serial Ports: Two RS-232 (16C550) with 16 byte FIFO as COM1-2 with BIOS selectable IRQs and addressing. COM 2 also selectable as IrDA port.
- Parallel Port: One bi-directional with all IEEE 1284 protocols supported and BIOS selectable IRQs and addressing
- Floppy Disk: (via parallel port) Support for one drive (B:) (360 KB to 2.88 MB)
- EIDE: PCI Ultra ATA/100, support for four drives (master/slave configuration); PIO Mode 4, Bus Master IDE or DMA mode 5 transfers up to 100 MB/s, (one male 40-pin shrouded header)
- Ethernet: PCI 10 Base-T / 100 Base-TX (Intel 82559), (with link and activity signals)

Video
- AGP 2D/3D SVGA CRT, LCD, or TV Out controller with 8 MB SDRAM Memory
- Simultaneous CRT and LCD support, and multiview dual application support.
- 1024 x 768, 64K colors; or 1280 x 1024, 256 colors, non-interlaced

Audio
- AC'97 2.1 controller and CODEC

Clock / Calendar
- Replaceable battery powered real-time clock with 256 byte CMOS RAM
- Power fail/low battery detector

Misc.
- PS/2 mouse/keyboard
- Speaker, reset
- Hardware Monitor - CPU and ambient board temperature, input voltages

BIOS
- PCI 2.2 compliant field upgradeable AMI BIOS, boot from LAN (PXE 2.0)
- Support for memory hole at 15-16 MB; PnP 1.0a compliant
- Setup console redirection to serial port (VT100/ANSI mode) with CMOS setup access
- Software enable/disable onboard Ethernet
- Diskless, keyboardless, and videoless operation extensions; system, video, and third party option card ROM shadowing
- SMBIOS V2.3.1
- S.M.A.R.T. support
- ACPI Rev 1.0b compliant
- Multiboot support, custom BIOS graphical boot

Supervisory
- Two-stage programmable watchdog timer drives; INT on 1st stage, system reset on 2nd stage
- Hardware system monitor (voltages, CPU, and board temperature,)

OS Compatibility
Windows 98, Windows ME, Windows NT, Windows 2000, Windows XP, Red Hat Linux, Solaris, QNX, UnixWare

Mechanical
- 4.49in. x 3.94 in. x 0.47 in. at CPU / fan (114 mm x 100 mm x 12 mm)
- Conforms to IEEE P996 PC/AT bus, PCI Rev. 2.1, & ETX Specification 2.6 standards

Power Requirements
400MHz Celeron®
5V @ 2.91A (Max)

933MHz Pentium® III
5V @ 4.3A (Max)

Environmental
Operating (with approved thermal solution)
- Temperature: 0° to 65°C / 32° to 149°F
- Humidity (RNC): 5 to 95% @ 40°C / 104°F
- Altitude: 3048m / 10,000ft
- Vibration: 1G 5-500Hz

Environmental (cont'd)
Storage and Transit (in approved packaging)
- Temperature: -40° to 70°C / -40° to 158°F
- Humidity (RNC): 5 to 95% @ 40°C / 104°F
- Altitude: 15,240m / 50,000ft
- Shock: 30" free fall
- Vibration: 0.5G 5-50Hz, 3G 50-500Hz

Reliability
- MTBF: 390,654 hours @ 25°C
  (performed to Issue 6, Method I, Case 3 of the Bellcore IR Program)
- 2 year limited warranty

Regulatory Compliance
- Safety: UL/cUL 60950-1:2003, EN/IEC 60950-1:2001
- EMC Class A: FCC 47 CFR part 15-B, CISPR22:1997/EN55022:1998, EN55024:1998

Ordering Information
eTX-L205/400
Module with 400MHz Ultra Low Voltage Celeron® processor and 256KB Cache

eTX-L205/650
Module with 650MHz Ultra Low Voltage Celeron® processor and 256KB Cache

eTX-L305/800
Module with 800MHz Low Power Pentium® III processor and 512KB Cache

eTX-L305/933
Module with 933MHz Low Power Pentium® III processor and 512KB Cache

OPTIONS
PC100/133 SODIMM
ETX Heat Spreader
VxWorks BSP
Backplane

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