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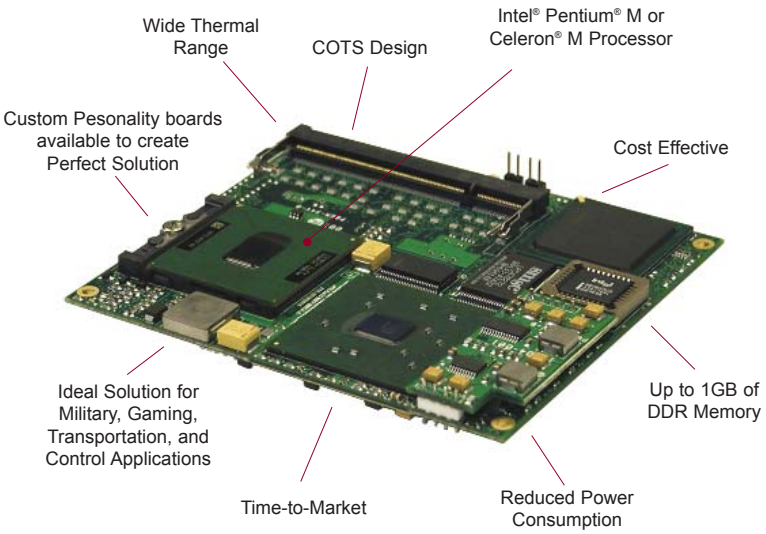
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ETX Embedded Computer Module (ECM) eTX-Lx15



- **Offered with either the Intel® Pentium® M processor or Intel® Celeron® M processor**
- **Intel® 82855GME Chipset with 400MHz Front Side Bus**
- **Integrated Graphics using Intel Extreme Graphics 2 technology**
- **Intel ICH4-M I/O controller HUB**
- **Up to 1GB of DDR Memory via one right angle SODIMM socket**
- **Dual Channel LVDS Flat Panel Support**
- **Integrated 10/100 Mb PCI Ethernet controller**
- **4-slot, 32/33-bit, PCI Bus support**
- **2 Serial Ports and 4 USB (Rev. 2.0)**
- **Dual channel PCI ATA/100 EIDE**
- **Integrated AC'97 2.1 Sound**

The eTX-Lx15 ECM, part of DTI's embedded product offering, features either the Intel® Pentium® M processor or the Intel® Celeron® M processor. The board also utilizies the Intel® 855GME chipset and up to 1GB PC1600/2100/2700 DDR SDRAM on a single 200-pin SODIMM socket. The integration of Intel's Extreme Graphics 2 controller provides enhanced 2D/3D performance with up to 64MB dynamic video memory, dual channel LVDS, and simultaneous digital flat panel and CRT output. Coupled with Intel's ICH4-M, the eTX-Lx15 ECM offers excellent AC'97 2.1 compliant audio quality, 10 Base-T/100 Base-TX Ethernet and Ultra ATA/100 EIDE controllers which support fast data/file transfer. Four Universal Serial Buses (USB2.0), two serial ports, and one shared, selectable parallel/floppy port round out the basic board.

DTI's eTX-Lx15 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 scaleable performance configurations support both the PCI and ISA bus architectures.

The eTX-Lx15 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. Advanced Power Management. Embedded application robustness. Long production life. Diversified Technology's eTX-Lx15 industrial ECM 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.








Diversified Technology®
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www.dtims.com

1.800.443.2667

Rev 1.7
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SPECIFICATIONS

CPU / Cache
- Intel Pentium M processor with max speeds of 2.0GHz and up to 2MB L2 cache
- Intel Celeron M processor at 1.3GHz and 512Kb Cache
- Intel® 855GME chipset
- ICH4-M I/O Controller

Bus Interface
- 400MHz Front Side Bus
- Supports 200/266/333 MHz DDR SDRAM devices
- 33MHz PCI Busses, Supports four 32-bit/33MHz slots

Memory
- One 200-pin latching right angle 2.5V DDR SODIMM socket (1" or 1.25" modules)
- Up to 1GB using 128/256/512-Mbit single or double-sided technologies. PC1600/2100/2700 DDR SDRAM

Data Path
- 64-bit, 400MHz on CPU and 64-bit (72-bit with ECC) 200/266/333 MHz on memory bus
- 32-bit/33MHz on off-board PCI bus; 32-bit/33MHz on on-board PCI bus

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

I/O
- Four USB 2.0 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 (360 KB to 1.44 MB)
  *Non-twisted cabling only.
- 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
- Ethernet: PCI 10 Base-T / 100 Base-TX
- Intel 82562EM (with link and activity signals)

Video
- Intel Extreme Graphics 2 Controller
- Dual Channel LVDS flat panel and CRT output. (Simultaneous CRT and LCD capability) 2D/3D Graphics Support.
- Up to 64MB Dynamic Video RAM
- Max CRT Resolution: 2048 x 1536 at 75Hz
  Max LCD Resolution: 1600 x 1200 at 60Hz

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
- Watchdog timer, drives a system reset.
- Hardware system monitor (voltages, CPU, and board temperature,)

OS Compatibility
- Standard: MS-DOS™; Windows® 95/98/2000/XP/ME/NT 4.0/5.0; VxWorks®; QNX®; MontaVista™/Red Hat Linux®
- Optional: UnixWare® 2.1.1/7.1.1; Solaris™

Mechanical
- 4.49 in. 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. 2.2, & ETX Specification 2.6 standards

Power Requirements
Input Power Rail: +5V

Typical Power Consumption:
1.1 GHz 2.92A
1.4 GHz 3.08A
1.6 GHz 3.86A

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

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: 394,143 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-Lx15C/1300 *
Module with 1.3GHz Celeron M processor and 512Kb cache

eTX-Lx15/1100 *
Module with 1.1GHz/400MHz Pentium M processor and 1MB L2 cache

eTX-Lx15/1600 *
Module with 1.6GHz/400MHz Pentium M processor and 1MB L2 cache

eTX-Lx15/16003 *
Module with 1.6GHz/400MHz Pentium M processor 735 and 2MB L2 cache

eTX-Lx15/1800 *
Module with 1.8GHz/400MHz Pentium M processor 745 and 2MB L2 cache

eTX-Lx15/2000
Module with 2.0GHz/400MHz Pentium M processor 755 and 2MB L2 cache

* long life-cycle support

OPTIONS
DDR 200/266/333 Memory Capacity
ETX Heat Spreader
VxWorks BSP
ETX Baseboard

All products are shipped FOB factory (MS).
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www.dtims.com
1.800.443.2667
476 Highland Colony Parkway • Ridgeland, MS 39157

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