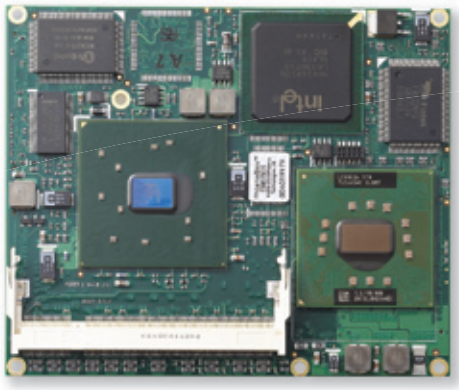
ETX-IM333

ETX® Module with Intel® Pentium® M Processor and 855GME / ICH4 Chipset



Features

- Intel® Pentium® M and Celeron® M processor
- Intel® 855GME / ICH4 chipset
- Up to 1 GB DDR 333 Mhz SDRAM
- CRT and single/dual 18-bit LVDS
- 2 IDE PATA), LAN, USB 2.0

Specifications

Core System

CPU	**Socket 479 type**
	Intel® Pentium® M 760, 2.0 GHz, with 2MB L2 cache
	Intel® Pentium® M 745, 1.8 GHz, with 2MB L2 cache
	Intel® Celeron® M 370, 1.5 GHz, with 512KB L2 cache
	BGA type
	Intel® Pentium® M 738, 1.4 GHz, with 2MB L2 cache
	Intel® Celeron® M 373, 1.0 GHz, with 1MB L2 cache
	Intel® Celeron® M, 1.0 GHz, with zero L2 cache
	Intel® Celeron® M, 600 MHz, with 512 L2 cache
Memory	Single SODIMM socket for up to 1 GB DDR at 333 MHz (with or without ECC support)
Chipset	Intel® 855GME and Intel® 82801DB I/O Control Hub 4
BIOS	Phoenix® Award PnP 8 Mb Flash with console redirection and CMOS EEPROM backup
Hardware Monitor	Supply voltages and CPU and system temperature
Watchdog Timer	Software programmable 1-255 sec, generates system reset
Expansion Busses	32-bit PCI rev. 2.2 and ISA

Video

Chipset	Intel® Extreme Graphics 2 (Intel® 855GME chipset)
CRT Interface	Analog VGA support up to QXGA 2048 x 1536 resolution
LVDS Interface	Dual Channel 18-bit up to 1600 x 1200 resolution

Audio

Chipset	Integrated in Intel® 82801DB Southbridge
Audio Codec	VIA VT1616 AC'97 ver. 2.0 compatible

LAN

Chipset	ICH4 integrated Intel® 82562 compatible 32-bit PCI LAN controller
Interface	10/100 Mbps with Wake-on-LAN and Alert on LAN support

Multi I/O

HDD	Dual channel IDE with UDMA 33 support
USB	Four USB 2.0 ports
Serial	Two high speed RS-232C ports (COM1/COM2)
IrDA	Supports SIR IrDA 1.1 compliant
Parallel	SPP, EPP, and ECP mode (pin out shared with FDD)
FDD	One drive (pin out shared with LPT)
Keyboard & Mouse	One PS/2 keyboard and one PS/2 mouse

Power Specifications

Input Power	AT mode (5 V only) and ATX mode (5 V and 5 Vsb)
Power States	SO, S1, S4, S5
Power Consumption	17 W typical (with Pentium® M 738 and 1 GB DDR memory)

Mechanical and Environmental

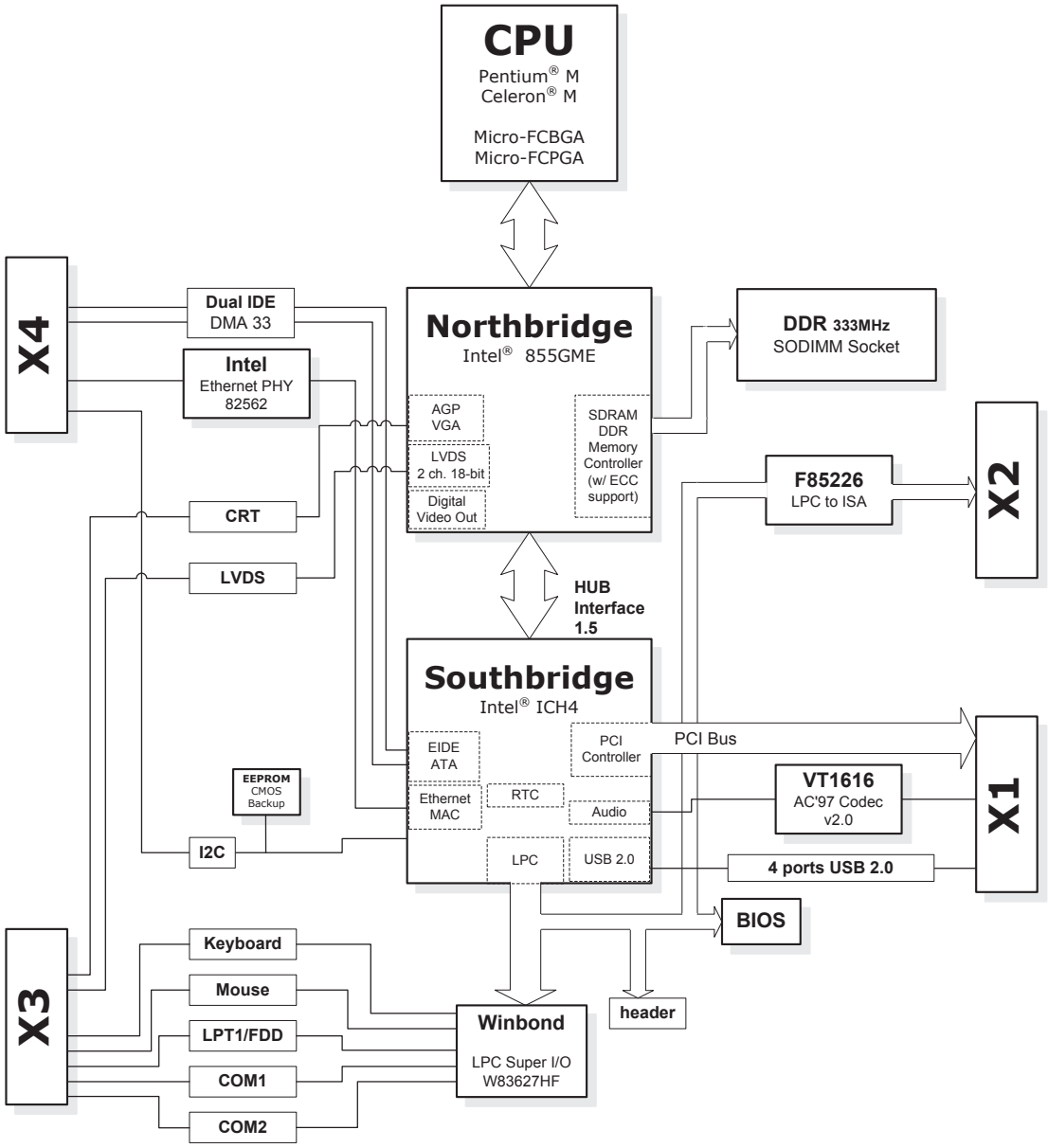
Operating Temp.	0° to 60°C
Storage Temp.	-20°C to 80°C
Humidity	5% to 95% relative humidity, non condensing
Shock	15G peak-to-peak, 11ms duration, non-operation
Vibration	Non-operation: 1.88 Grms, 5-500 Hz, each axis
	Operation: 0.5 Grms, 5-500 Hz, each axis
Form Factor	ETX® rev. 2.7, size 95 mm x 114 mm
Certifications	CE, FCC

Operating Systems

Standard Support	Windows® XP 32-bit
	Windows® NT 4.0
	Windows® NT 2K
	Linux® 2.6.x
Extended Support	Embedded XP BSP
	Windows® CE 5.0/6.0 BSP
	Linux® 2.6.x BSP
	Vxworks 5.5 BSP
	AIDI I²C Library for Win32, WinCE and Linux®

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Functional Diagram



Ordering Information

Modules

Model Number	Description/Configuration
ETX-IM333-S	ETX® Module with socket for Intel® Celeron®/Pentium® M CPU (for Intel® Pentium® M 760 processor at 2.0 GHz or Intel® Pentium® M 745 processor at 1.8 GHz or Intel® Celeron® M 370 processor at 1.5 GHz, with 512KB L2 cache)
ETX-IM333-C0600	ETX® Module with ULV Intel® Celeron® M at 600 MHz
ETX-IM333-C1000	ETX® Module with LV Intel® Celeron® M 373 at 1.0 GHz
ETX-IM333-P1400	ETX® Module with LV Intel® Pentium® M 738 at 1.4 GHz

Accessories

Model Number	Description/Configuration
Heat Spreaders	
HTS-IM333-B	Heatspreader for ETX-IM333 (for LV and ULV BGA CPU) with threaded standoffs
Passive Heatsinks	
THS-IM333	Low Profile Heatsink for ETX-IM333 (BGA CPU) with threaded standoffs
Heatsink with Active Cooling	
THSF-IM333-S	High Performance Heatsink with Fan for ETX-IM333 (socket CPU) with threaded standoffs

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000