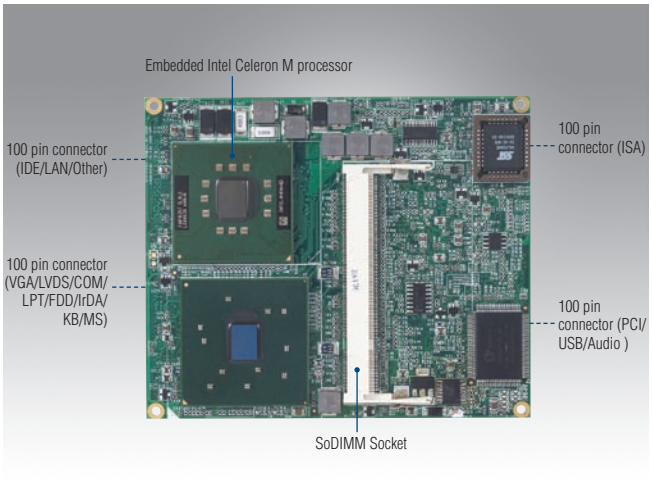
SOM-4486

Intel® Celeron® M, 852GM ETX CPU Module



Features

- Intel® Celeron® M processor
- Intel 852GM/ICH4 chipset
- Supports one DDR SODIMM up to 1 GB
- Mobile Intel 852GM Integrated 3D/2D engine
- Display type: 2 x 24-bit LVDS/ VGA
- Intel 10/100 Mbps LAN
- Expansion: 4 PCI master, ISA
- 4 x USB 2.0, 2 x EIDE, 2 x COMs, FDD/LPT port

RoHS COMPLIANT 2002/95/EC · Windows Embedded · CE FCC

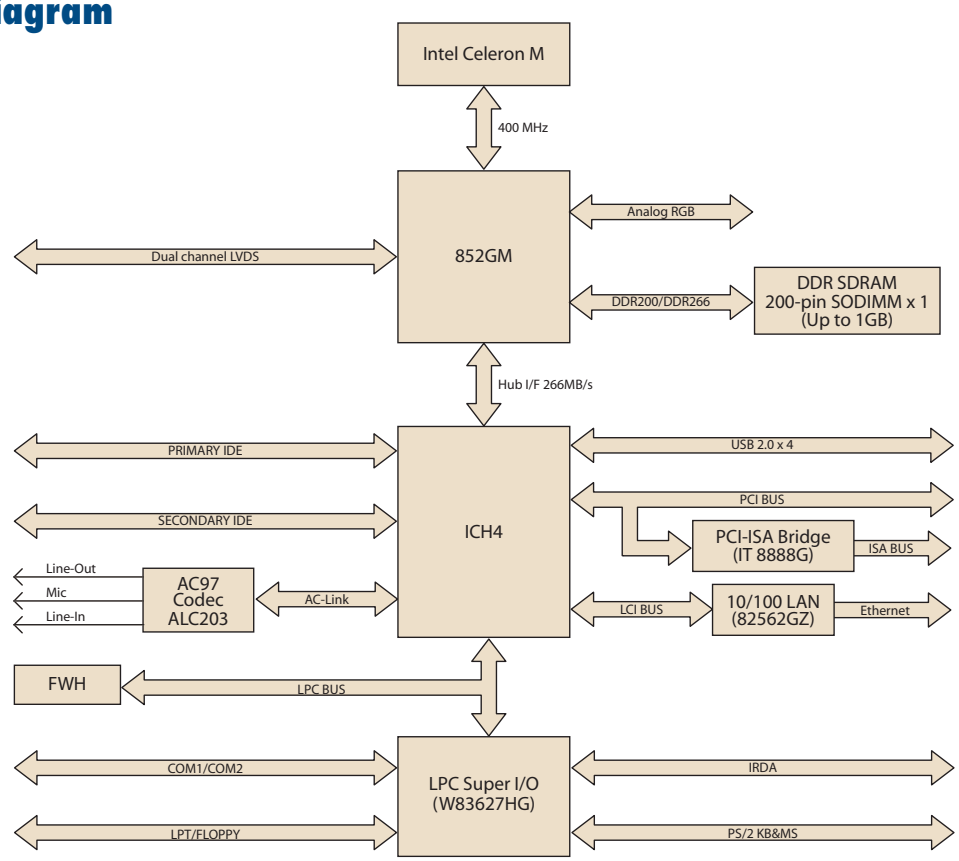
Specifications

Form Factor		ETX
Processor System	CPU	Intel Celeron M Processor
	Front Side Bus	400 MHz
	System Chipset	Intel 852GM GMCH/ICH4
	BIOS	AWARD 4 Mbit Flash BIOS
Memory	Technology	DDR200/ 266 MHz
	Max. Capacity	up to 1 GB
	Socket	1 x 200-pin SODIMM socket
Display	Chipset	Intel 852GM
	VRAM	DVMT supports up to 32 MB
	Graphics Engine	Mobile Intel 852GM integrated 3D/2D engine
	LCD	2 x 24-bit LVDS
	VGA	up to 1600 x 1200
	Dual Display	CRT + LCD
Ethernet	Chipset	Intel 82562GZ 10/100 Mbps Ethernet
	Speed	10/100 Mbps
WatchDog Timer		256 timer intervals, from 1 to 255 sec or min setup by software, jumperless selection, generates system reset
Expansion		4 x PCI master, ISA
I/O	PATA	2 x EIDE (UDMA 100)
	USB	4 x USB 2.0
	Audio	Realtek ALC203 AC97 Codec support Line-in/out, MIC-in
	GPIO	1-bit GPIO, 2-bit GPE
	COM	2 COM ports
	FDD/LPT	1 x FDD or LPT
Power	Power Type	ATX, AT
	Power Supply Voltage	+5 V only (+5 VSB needs for ATX)
	Power Consumption (Typical)	Typical: (1 GB DDR 266) +5 V @ 2.01 A (Intel Celeron M 600 MHz) +5 V @ 2.34 A (Intel Celeron M ULV 373 0 KB 1.0 G)
	Power Consumption (Max, test in HCT)	Max: (1 GB DDR 266) +5 V @ 2.40 A (Intel Celeron M 600 MHz) +5 V @ 2.86 A (Intel Celeron M ULV 373 0 KB 1.0 G)
Environment	Operating Temperature	0 ~ 60° C (32 ~ 140° F)
	Operating Humidity	0% ~ 90% relative humidity, non-condensing
Mechanical	Dimensions	114 x 95 mm (4.5" x 3.74")

All product specifications are subject to change without notice

Last updated : 24-Mar-2009

Board Diagram



Ordering Information

Part No.	CPU	L2 Cache	Chipset	LVDS	VGA	10/100 LAN	AC97 Audio	PCI	USB 2.0	ATX Power	AT Power	Thermal Solution	Operating Temp.
SOM-4486FL-M0A3E	Celeron M 600 MHz	512 KB	852GM	2 x 24-bit	Yes	Yes	Yes	4	4	Yes	Yes	Passive	0 ~ 60° C
SOM-4486FL-S0A3E	Celeron M 1 GHz	0 KB	852GM	2 x 24-bit	Yes	Yes	Yes	4	4	Yes	Yes	Passive	0 ~ 60° C

Development Board

Part No.	Description
SOM-DB4400-00A2E	Development Board for ETX Rev.A2
SOM-DB4700-00A1E	Development Board for ETX Rev.A1

Packing List

Part No.	Description	Quantity
	SOM-4486 CPU Module	1
	Utility CD	1
1960005652	Heatspreader	1

Optional Accessories

Part No.	Description
1960012091T00S	Semi-Heatsink 114 x 96 x 15 mm
1750001980	Semi-Cooler 114 x 96 x 15 mm 12 V Fan