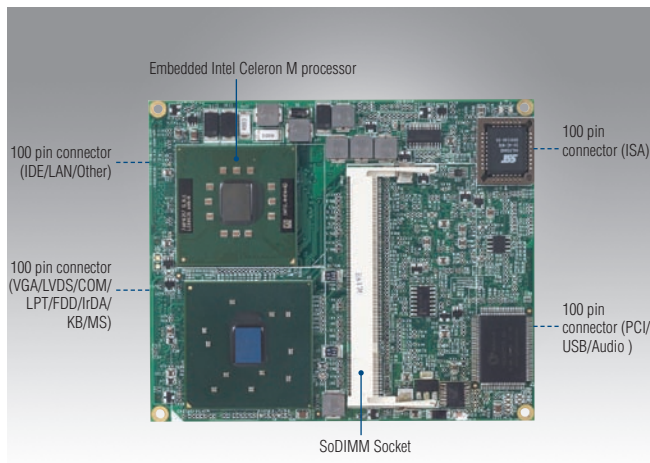


SOM-4481

Intel® Pentium® M, 855GME ETX CPU Module



Features

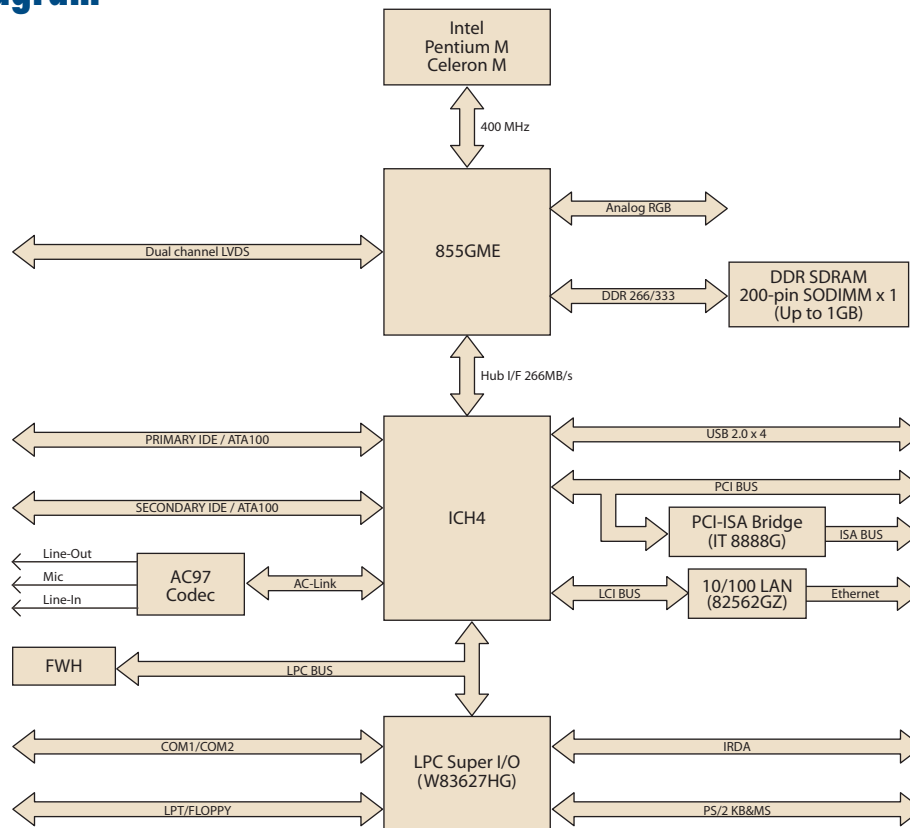
- Intel® Pentium M/Celeron® M processor
- Intel 855GME/ICH4 chipset
- Supports one DDR SODIMM up to 1 GB
- Mobile Intel 855GME Integrated 3D/2D engine
- Display type: 2 x 24-bit LVDS/ VGA
- Intel 10/100 Mbps LAN
- Expansion: 4 PCI master, ISA
- 4 x USB 2.0, 2 x EIDE, 2 x COMs, FDD/LPT port



Specifications

Form Factor	ETX		
Processor System	CPU	Intel Pentium M/Celeron M Processor	
	Front Side Bus	400 MHz	
	System Chipset	Intel 855GME GMCH/ICH4	
	BIOS	AWARD 4 Mbit Flash BIOS	
Memory	Technology	DDR 200/266/333 MHz	
	Max. Capacity	up to 1 GB	
	Socket	1 x 200-pin SODIMM socket	
Display	Chipset	Intel 855GME	
	VRAM	DVMT supports up to 32 MB	
	Graphics Engine	Mobile Intel 855GME 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 333)	
		+5 V @ 2.48 A (Intel Pentium M 745, 1.8 G)	
		+5 V @ 2.34 A (Intel Pentium M LV 738, 1.4 G)	
		+5 V @ 2.00 A (Intel Pentium M LV 1.1 G)	
+5 V @ 2.56 A (Intel Celeron M 370, 1.5 G)			
Power Consumption (Max, test in HCT)	+5 V @ 2.30 A (Intel Celeron M ULV 373, 1.0 G)		
	+5 V @ 1.92 A (Intel Celeron M 600 MHz)		
	Max: (1 GB DDR 333)		
	+5 V @ 5.04 A (Intel Pentium M 745, 1.8 G)		
	+5 V @ 3.53 A (Intel Pentium M LV 738, 1.4 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")	

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-4481FL-00A3E	Socket		855GME	2 x 24-bit	Yes	Yes	Yes	4	4	Yes	Yes	Active	0 ~ 60° C
SOM-4481FL-M0A3E	Celeron M 600 MHz	512 KB	855GME	2 x 24-bit	Yes	Yes	Yes	4	4	Yes	Yes	Passive	0 ~ 60° C
SOM-4481FL-R0A3E	Celeron M 373	512 KB	855GME	2 x 24-bit	Yes	Yes	Yes	4	4	Yes	Yes	Passive	0 ~ 60° C
SOM-4481FL-S0A3E	Pentium M LV 1.1 G	1 MB	855GME	2 x 24-bit	Yes	Yes	Yes	4	4	Yes	Yes	Passive	0 ~ 60° C
SOM-4481FL-S4A3E	Pentium M LV 738	2 MB	855GME	2 x 24-bit	Yes	Yes	Yes	4	4	Yes	Yes	Active	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-4481 CPU Module	1
	Utility	1
1960005653	Heatspreader (SOM-4481FL-00A3E only)	1
1960005652	Heatspreader (SOM-4481FL-M0A3E, SOM-4481FL-R0A3E, SOM-4481FL-S0A3E, SOM-4481FL-S4A3E)	1

Optional Accessories

Part No.	Description
1960012091T00S	Semi-Heatsink
1750001980	Semi-Cooler