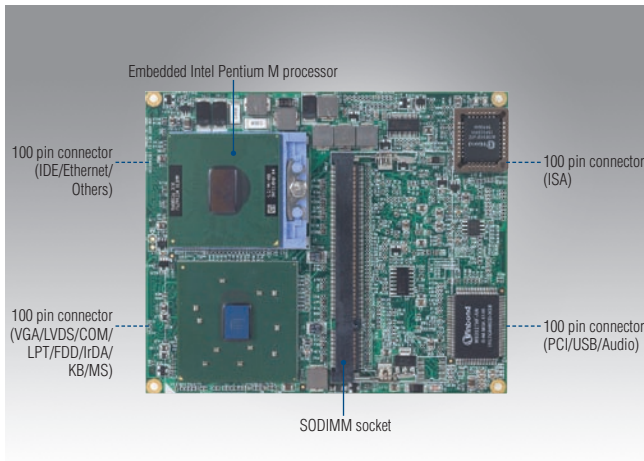


SOM-4481 Series

**Intel® Pentium® M/Celeron® M
Processor ETX Module with
CPU, VGA/LVDS, Audio & LAN**



Features

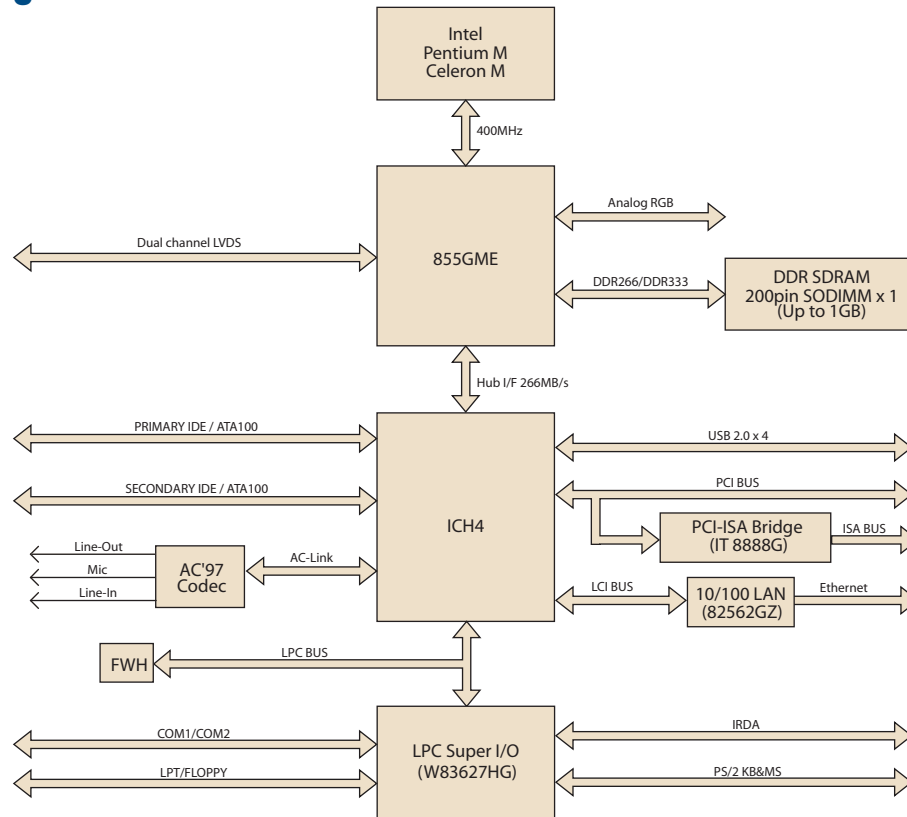
- Embedded Intel® Pentium® M/Celeron® M processor
- Supports ECC DDR Memory
- With Vcore two phase design for more stable system
- 4 USB 2.0 ports
- Supports dual channel LVDS panel



Specifications

Processor System	CPU	Embedded Intel Pentium M or Celeron M processor
	System Memory	1 x 200-pin SODIMM sockets, DDR 200/266/333 MHZ up to 1 GB
	2nd Cache Memory	1 or 2 MB on the Pentium M processor or 512 KB on the Celeron M processor
	System Chipset	Intel 855GME GMCH/ICH4 Chipset 400 MHz FSB
	BIOS	AWARD™ 4 Mbit Flash BIOS
	WatchDog Timer	256 levels timer interval, from 1 to 255 sec or min setup by software, jumperless selection, generates system reset
I/O	Expansion Interface	Supports PCI & ISA interface
	MIO	2 x EIDE (UDMA 66), 1 x LPT/FDD (shared), 1 x Keyboard, 1 x Mouse, 2 x RS-232
	IrDA	115 kbps, IrDA 1.1 compliant
	USB	4 x USB 2.0 compliant ports
Ethernet	Chipset	Intel 82562GZ 10/100Mbps Ethernet Chip
	Speed	10/100Base-T
Display	Chipset	Intel 855GME
	Memory Size	DVMT support up to 32 MB
	Resolution	CRT Display Mode: Pixel resolution up to 1600 x 1200 at 85 Hz and 2048 x 1536 at 75 Hz LCD Interface: Supports 36/18bit LVDS TFT LCD up to 1280 x 1024
Power	Power Supply Voltage	+5 V power only
	Power Requirement	Typical: (1 GB DDR 333) +5 V @ 2.48 A (Intel Pentium M 745) +5 V @ 2.34 A (Intel Pentium M LV 738) +5 V @ 2 A (Intel Pentium M LV 1.1 GHz) +5 V @ 2.56 A (Intel Celeron M 370) +5 V @ 2.3 A (Intel Celeron M ULV 373) +5 V @ 1.92 A (Intel Celeron M 600 MHz) Max: (1 GB DDR 333) +5 V @ 5.04 A (Intel Pentium M 745) +5 V @ 3.53 A (Intel Pentium M LV 738) +5 V @ 3.17 A (Intel Pentium M LV 1.1 GHz) +5 V @ 3.58 A (Intel Celeron M 370) +5 V @ 3.21 A (Intel Celeron M ULV 373) +5 V @ 2.38 A (Intel Celeron M 600 MHz)
Environmental	Operating Temperature	0 ~ 60° C (32 ~ 140° F)
	Operating Humidity	0% ~ 90% relative humidity, non-condensing
Mechanical	Dimensions (L x W)	95 x 114 mm (3.74" x 4.5")

Board Diagram



Ordering Information

Part No.	CPU	Operation temp.
SOM-4481FL-00A3E	Socket 478	0 ~ 60° C
SOM-4481FL-M0A3E	Intel Celeron M ULV 600 MHz	0 ~ 60° C
SOM-4481FL-R0A3E	Intel Celeron M ULV 373 @1.0 GHz	0 ~ 60° C
SOM-4481FL-S0A3E	Intel Pentium M LV 1.1 GHz	0 ~ 60° C
SOM-4481FL-S3A3E	Intel Celeron M 320 @ 1.3 GHz	0 ~ 60° C
SOM-4481FL-S4A3E	Intel Pentium M LV 738 @ 1.4 GHz	0 ~ 60° C
SOM-4481Z-R0A3E	Intel Celeron M ULV 373 @1.0 GHz	-20 ~ 80° C
SOM-4481Z-S0A3E	Intel Pentium M LV 1.1 GHz	-20 ~ 80° C
SOM-4481Z-S4A3E	Intel Pentium M LV 738 @ 1.4 GHz	-20 ~ 80° C
SOM-4481Z2-R0A3E	Intel Celeron M ULV 373 @1.0 GHz	-40 ~ 85° C
SOM-4481Z2-S0A3E	Intel Pentium M LV 1.1 GHz	-40 ~ 85° C
SOM-4481Z2-S4A3E	Intel Pentium M LV 738 @ 1.4 GHz	-40 ~ 85° C

Development Board

Part No.	
SOM-DB4400-00A2E	Development Board for SOM-ETX Rev. A2