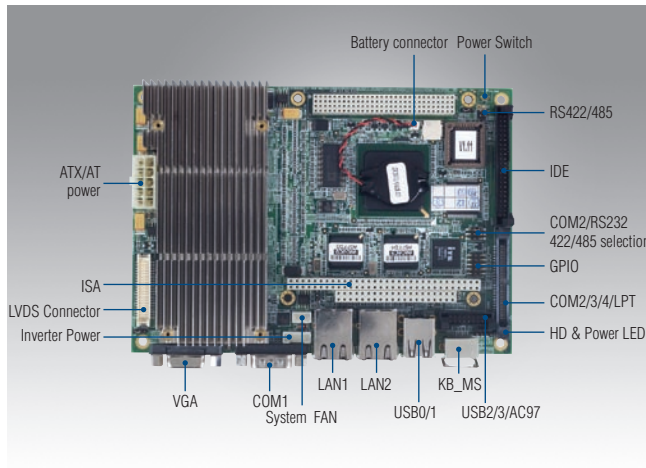


PCM-4386

Intel Celeron® M EPIC SBC with
VGA/ LVDS/ Dual LAN/ PC104 Plus



Features

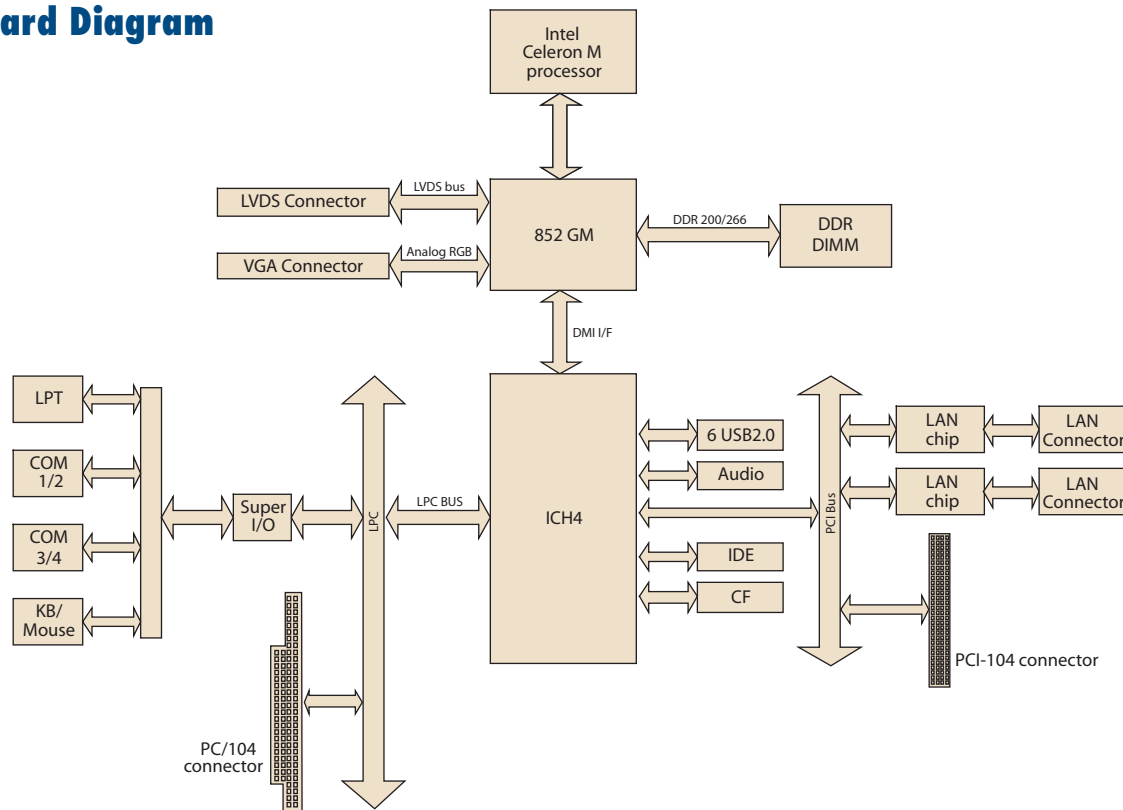
- Intel® Celeron® M processor on board
- SODIMM socket supports up to 1 GB DDR 200/266 SDRAM
- Display Combination: CRT + 36-bit LVDS display support
- Supports 4 COM ports, 6 USB 2.0 ports, an 8-bit GPIO port
- Dual 10/100 Mbps Ethernet
- Supports CompactFlash/uDOC (option)
- Supports ATX/ AT power
- PC/104-Plus bus (Fully 8/16 bit ISA bus)



Specifications

Processor System	CPU	Intel ULV Celeron M 600 MHz	Celeron M 1.0 GHz
	Front Side Bus	400 MHz	400 MHz
	L2 Cache	512 KB/ 0 KB	0 KB
	Chipset	Intel 852GM + ICH4	Intel 852GM + ICH4
	BIOS	Award 4-Mbit	Award 4-Mbit
Memory	Technology	DDR 200/266	
	Max. Capacity	1 GB	
	Socket	1 x 200-pin SODIMM	
SSD	CompactFlash	Card Type I, USB-DOM	
Coastline I/O	VGA	1	
	COM	1	
	LAN	2	
	USB	2	
	KB/MS	1	
I/O Interface	LPT	1	
	RS-232	2	
	RS-232/422/485	1	
	USB	4 x USB 2.0 (2 via USB DOM connector)	
	Audio	AC97, Line-in, Line-out, Mic-in (optional with PCM-410)	
	GPIO	8-bit general purpose input/output	
	SMBus	Supported	
EIDE	Mode	UDMA 33	
	Channel	1	
Expansion Slot	PC/104-Plus	1	
Ethernet	Speed	10/100 Mbps	
	Controller	2 x Intel 82551ER, 82541PI (optional)	
	Interface	2 x RJ-45	
Display	Controller	Intel 852GM	
	VRAM	Optimized Shared Memory Architecture up to 32 MB system memory	
	LVDS LCD	1 x 36-bit LVDS	
	Dual Independent Display	CRT + LVDS	
Environment	Operating Temperature	0 ~ 60° C (32 ~ 140° F), Z : -20 ~ 80° C (-4 ~ 176° F) (Optional)	
	Operating Humidity	0% ~ 90% relative humidity, non-condensing	
Power	Power Type	AT / ATX	
	Power Supply Voltage	ATX, +5 V ± 5%, ±12 V ± 5% AT, 5 V only to boot up, 12 V for LCD inverter and PC/104 module (12 V optional for PC/104 add on card and LCD inverter)	
	Power Consumption: Typical (XP)	2.62 A @ 5 V, 0.03 A @ 12 V, 0.49 A @ 3.3 V, 1.08 A @ 5 VSB (Celeron M 600 with 256 MB DDR266)	
	Power Consumption: Max, Test in HCT	2.63 A @ 5 V, 0.03 A @ 12 V (Celeron M 600 with 256 MB DDR266)	
	Power Management	APM, ACPI	
	Battery	Lithium 3 V / 196 mAH	
Watchdog Timer	Output	System reset	
	Interval	Programmable 1 ~ 255 sec	
Physical Characteristics	Dimensions (L x W)	115 x 165 mm (4.5" x 6.5")	
	Weight	0.35 kg (0.77 lb)(with Heatsink)	

Board Diagram



Ordering Information

Number	CPU	L2 cache	10/100	LVDS	USB 2.0	COM	GPIO	LPT	CF	USB-DOM	Audio	PC/104-plus	Operating Temp.	Thermal Solution
PCM-4386F-M0A2E	Celeron M 600 MHz	512 KB	2	36-bit	4	4 ports	8	1	Yes	-	Optional	Yes	0 ~ 60° C	Passive
PCM-4386F-S0A2E	Celeron M 1.0 GHz	0 KB	2	36-bit	4	4 ports	8	1	Yes	-	Optional	Yes	0 ~ 60° C	Passive
PCM-4386U-S0A2E	Celeron M 1.0 GHz	0 KB	2	36-bit	4	4 ports	8	1	-	Yes	Optional	Yes	0 ~ 60° C	Passive
PCM-4386FY-S0A2E	Celeron M 1.0 GHz	0 KB	2	36-bit	4	4 ports	8	1	Yes	-	Optional	Yes	-40 ~ 85° C	* Passive
	Celeron M 1.0 GHz	0 KB	2	36-bit	4	4 ports	8	1	Yes	-	Optional	Yes	-20 ~ 80° C	Passive

Note 1: The PCM-4386FY-S0A1E is a Phoebus with -40 ~ 85° C operations designed in, operates continuously under -40 ~ 85° C for at least 8 hrs.

Note 2: Support for 48-bit LVDS is possible upon evaluation, please contact Advantech for more detail

Optional Accessories

Part No.	Description
PCD-USBH11-MS0256	USB-DOM, 256 MB, -40 ~ 85° C
PCD-USBH11-MS0512	USB-DOM, 512 MB, -40 ~ 85° C
PCD-USBH11-MS1024	USB-DOM, 1 GB, -40 ~ 85° C
PCD-USBH11-MS2048	USB-DOM, 2 GB, -40 ~ 85° C
9696290100	IDE to CF module
PCM-410A-00A1E	AC97 Audio/USB module for PCM-4380/4386 series
PCM-410C-00A1E	COM/LPT daughter board for EPIC
1700090301	COM2 RS-422/485 D-sub 9P to 4P cable, 30 cm

Packing List

Part No.	Description	Quantity
	PCM-4386 SBC	1
9689000002	Mini Jumper Pack	1
	Startup Manual	1
	Utility CD	1
1700002034	3 COM ports and LPT cable	1
1700002055	ATX power cable	1
1700060202	6P-6P-6P PS/2 KB/MS	1
1700004891	USB cable 2 port/20-pin	1
1701440504	IDE cable	1
1700003931	AT power cable	1