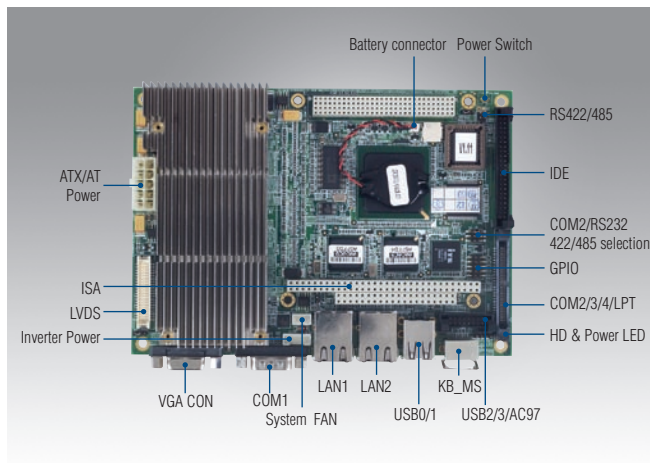


# PCM-4380

Intel® Pentium® M EPIC SBC with  
VGA/ LVDS/ Dual LAN



## Features

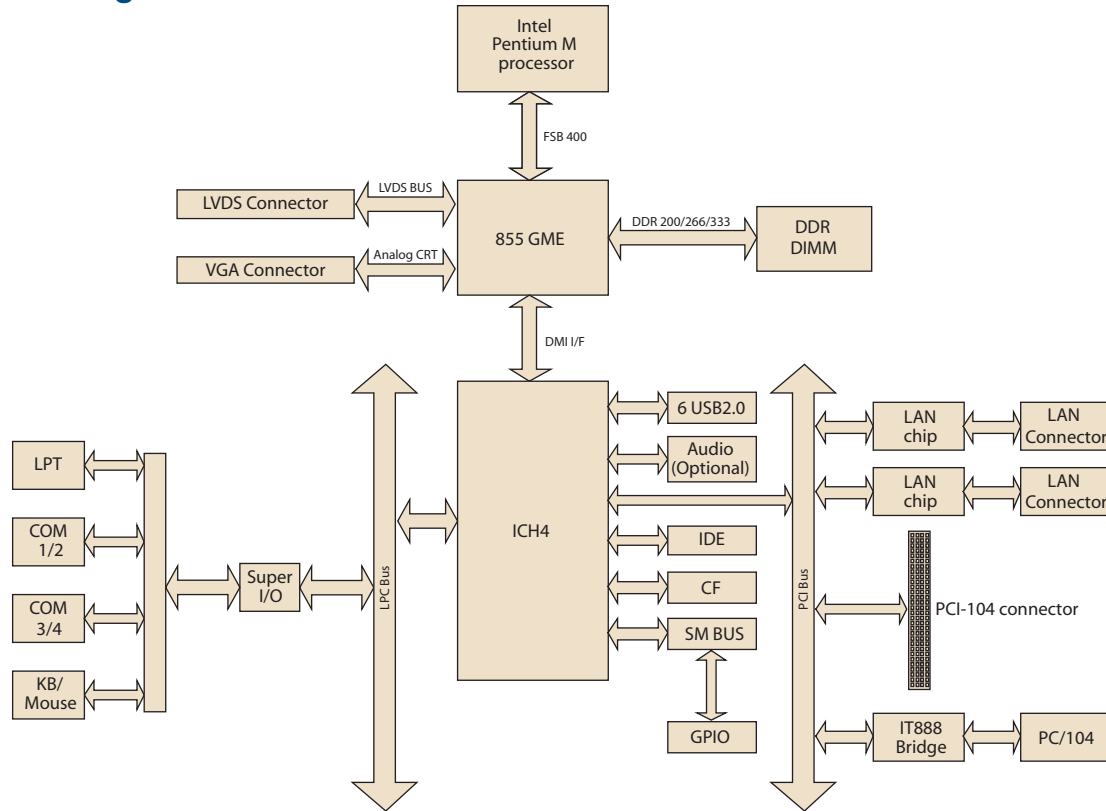
- Intel® Pentium® M processor on board
- SODIMM socket supports up to 1 GB DDR 200/266/333
- Display Combination: CRT + LVDS display support
- Supports 4 COM ports, 6 USB 2.0 ports & 8-bit GPIO
- Dual 10/100/1000 Mbps Ethernet
- Supports Compact Flash/uDOC (option)
- Supports ATX / AT power
- PC/104-Plus bus (full 8/16-bit ISA bus)



## Specifications

Processor System	CPU	Celeron M 600 MHz	Celeron M 1.0 GHz	LV Pentium M 1.4 GHz
	Front Side Bus	400 MHz	400 MHz	400 MHz
	L2 Cache	512 KB ~ 2 MB	512 KB	2 MB
	Chipset	Intel 855GME + ICH4	Intel 855GME + ICH4	Intel 855GME + ICH4
	BIOS	Award 4-Mbit	Award 4-Mbit	Award 4-Mbit
Memory	Technology	DDR 200/266/333		
	Max. Capacity	1 GB		
	Socket	1 x 200-pin SODIMM		
SSD	CompactFlash	Card Type I, Type II (shared 2nd IDE Channel), UDOM		
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		
EIDE	Mode	UMA33		
	Channel	1		
Expansion Slot	PC/104-Plus	1		
	Ethernet	Speed	10/100 Mbps or 10/100/1000 Mbps (optional)	
Ethernet	Controller	2 x Intel 82551ER, optional 82541PI (GbE for optional)		
	Interface	2 x RJ-45		
Display	Controller	Intel 855GME		
	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), Z2 : -40 ~ 85° C (-40 ~ 185° 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, 5V only to boot up, 12V for LCD inverter and PC/104 module (12 V optional for PC104 add on card and LCD inverter)		
	Power Consumption: Typical (XP)	Typical: 1.82 A @ 5 V, 0.08 A @ 12 V, 1.23 @ 3.3 V (Pentium M 1.4 GHz with 256 MB DDR333)		
	Power Consumption: Max, Test in HCT	Max: 2.38 A @ 5 V, 0.08 A @ 12 V, 1.82 @ 3.3 V (Pentium M 1.4 GHz with 256 MB DDR333)		
	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	LAN	LVDS	USB2.0	RS-232	RS-422/485	GPIO	LPT	CF	USB-DOM	Audio	PC/104-plus	Operating Temp.	Thermal Solution
PCM-4380F-M0A2E	Celeron M 600 MHz	512 KB	2	36-bit	4	3	1	8	1	Yes	-	Optional	Yes	0 ~ 60° C	Passive
PCM-4380F-S0A2E	Celeron M 1.0 GHz	512 KB	2	36-bit	4	3	1	8	1	Yes	-	Optional	Yes	0 ~ 60° C	Passive
PCM-4380F-S4A2E	LV Pentium M 1.4 GHz	2 MB	2	36-bit	4	3	1	8	1	Yes	-	Optional	Yes	0 ~ 60° C	Passive
PCM-4380U-S0A2E	Celeron M 1.0 GHz	512 KB	2	36-bit	4	3	1	8	1	-	Yes	Optional	Yes	0 ~ 60° C	Passive
PCM-4380U-S4A2E	LV Pentium M 1.4 GHz	2 MB	2	36-bit	4	3	1	8	1	-	Yes	Optional	Yes	0 ~ 60° C	Passive
	Celeron M 512 KB	2 MB	2	36-bit	4	3	1	8	1	Yes	-	Optional	Yes	-40 ~ 85° C	Passive
	LV Pentium M 1.4 GHz	2 MB	2	36-bit	4	3	1	8	1	Yes	-	Optional	Yes	-40 ~ 85° C	Passive

Note: For wide temperature, please contact sales rep.

### Optional Accessories

Part No.	Description
PCD-USBH1-MS0256	USB-DOM, 256 MB, -40 ~ 85° C
PCD-USBH1-MS0512	USB-DOM, 512 MB, -40 ~ 85° C
PCD-USBH1-MS1024	USB-DOM, 1 GB, -40 ~ 85° C
PCD-USBH1-MS2048	USB-DOM, 2 GB, -40 ~ 85° C
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-4380 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