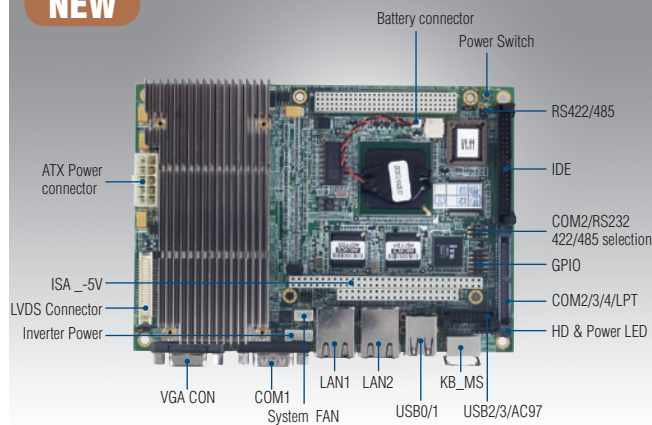


# PCM-4380

**Onboard Intel® Pentium® M EPIC SBC  
with VGA / LVDS / 2 Ethernet / 4 COM / 6  
USB 2.0 / 8-bit GPIO / PC/104-Plus**

**NEW**



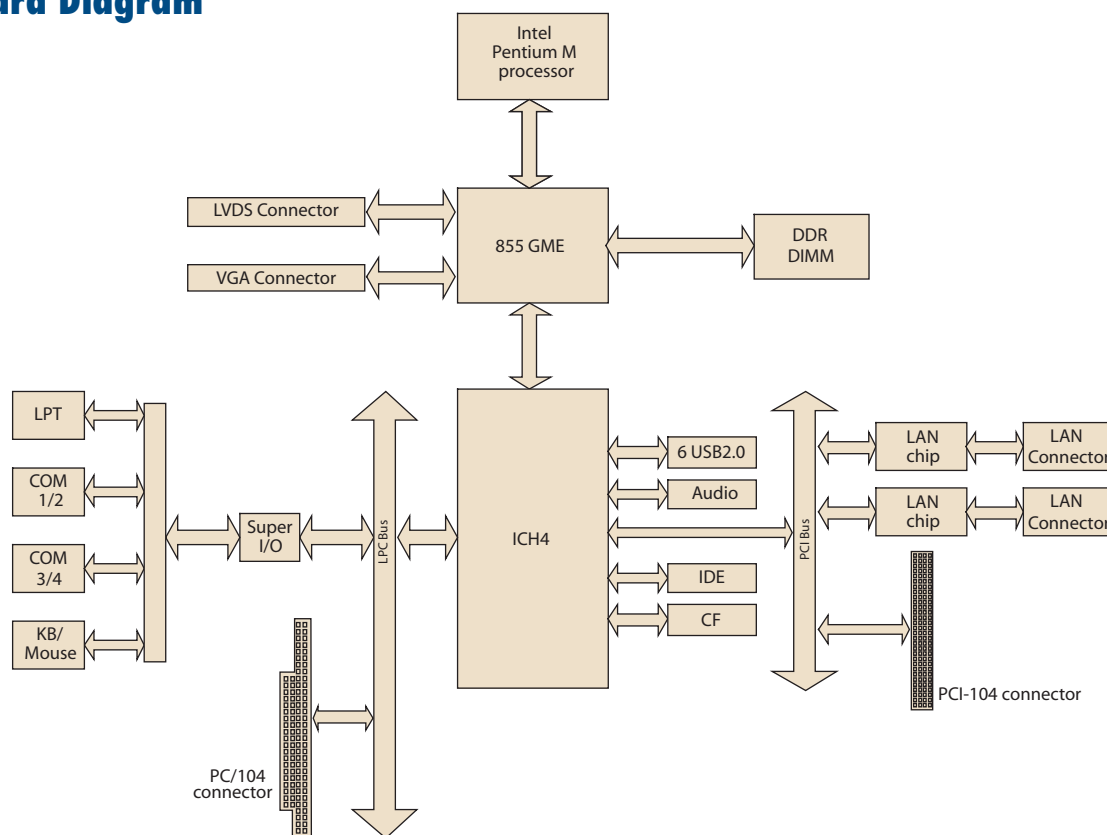
## Features

- EPIC form factor (115 x 165 mm)
- Intel® Pentium® M Processor on board
- SODIMM socket supports up to 1 GB DDR 200/266/333
- Display Combination: CRT + LVDS display support
- Supports four COM, six USB 2.0 ports & 8-bit GPIO
- Dual 10/100/1000 Mbps PCI Ethernet interface
- Supports Compact Flash/uDOC (option)
- Supports ATX/ AT power
- PC/104-Plus bus (fully 8/16-bit ISA bus)

## Specifications

Processor System	CPU	Intel Pentium M/Celeron M
	Front Side Bus	400 MHz
	L2 Cache	512 KB ~ 2 MB
	Chipset	Intel 855GME + ICH4
	BIOS	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
I/O Interface	LPT	1
	RS-232	3
	RS-232/422/485	1
	K/B	1
	Mouse	1
	USB	6 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	SMBus	Supported
	Mode	UMA33
Expansion Slot	Channel	1
	PC/104-Plus	1
Ethernet	Speed	10/100Mbps or 10/100/1000Mbps (optional)
	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	Operation Temperature	0 ~ 60° C (32 ~ 140° F)
	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	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	Chipset	10/100	LVDS	USB2.0	RS-232	RS-422/485	GPIO	LPT	CF	USB-DOM	Audio	PC/104-plus	Operation Temp.	Thermal Solution	ETT service
PCM-4380F-M0A2E	Celeron M 600 MHz	512 KB	855 GME	2	2 channel 36/48-bit	4	3	1	8	1	Yes	--	Optional	Yes	0 ~ 60° C	Passive	--
PCM-4380F-S0A2E	Celeron M 1.0 GHz	512 KB	855 GME	2	2 channel 36/48-bit	4	3	1	8	1	Yes	--	Optional	Yes	0 ~ 60° C	Passive	--
PCM-4380F-S4A2E	LV Pentium M 1.4 GHz	2 MB	855 GME	2	2 channel 36/48-bit	4	3	1	8	1	Yes	--	Optional	Yes	0 ~ 60° C	Passive	--
PCM-4380U-S0A2E	Celeron M 1.0 GHz	512 KB	855 GME	2	2 channel 36/48-bit	4	3	1	8	1	--	Yes	Optional	Yes	0 ~ 60° C	Passive	--
PCM-4380U-S4A2E	LV Pentium M 1.4 GHz	2 MB	855 GME	2	2 channel 36/48-bit	4	3	1	8	1	--	Yes	Optional	Yes	0 ~ 60° C	Passive	--
PCM-4380Z2-S0A2E	Celeron M 1.0 GHz	512 KB	855 GME	2	2 channel 36/48-bit	4	3	1	8	1	Yes	--	Optional	Yes	-40° C ~ +85° C	Passive	Phoenix Platinum
PCM-4380Z2-S4A2E	LV Pentium M 1.4 GHz	2 MB	855 GME	2	2 channel 36/48-bit	4	3	1	8	1	Yes	--	Optional	Yes	-40° C ~ +85° C	Passive	Phoenix Platinum

Note: 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
PCM-410A-00A1E	AC 97 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 and LPT cable	1
1700002055	ATX power cable	1
1700060202	6P-6P-6P PS/2 KB/MS	1
1700004891	USB cable 2 port/20pin	1
1701440504	IDE cable	1
1700003931	AT power cable	1