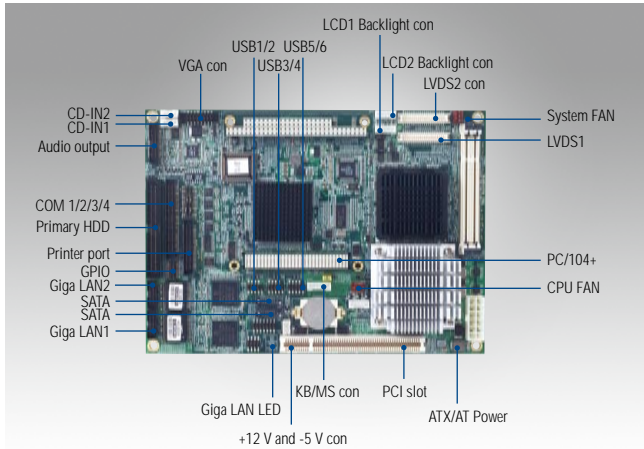


# PCM-9584

Intel® Pentium® M Processor EBX SBC  
with Audio, CRT, 2 LVDS (36-bit, 48-bit),  
2 GbE LAN, PC/104-Plus



## Features

- Intel® Pentium® M/Celeron® M processor
- Dual LVDS (48-bit LVDS/36-bit LVDS)/ CRT
- 2 Ethernet up to 10/100/1000 Mbps
- 6 x USB 2.0 ports, 4 COM ports, 2 x SATA ports
- PC/104-Plus, One PCI Slot, One Mini-PCI slot, 8-bit GPIO
- Supports embedded software APIs and utilities

**Software APIs:**

- GPIO
- H/W Monitor
- Watchdog
- Backlight On/Off
- SMBus
- CPU Speed
- System Throttling

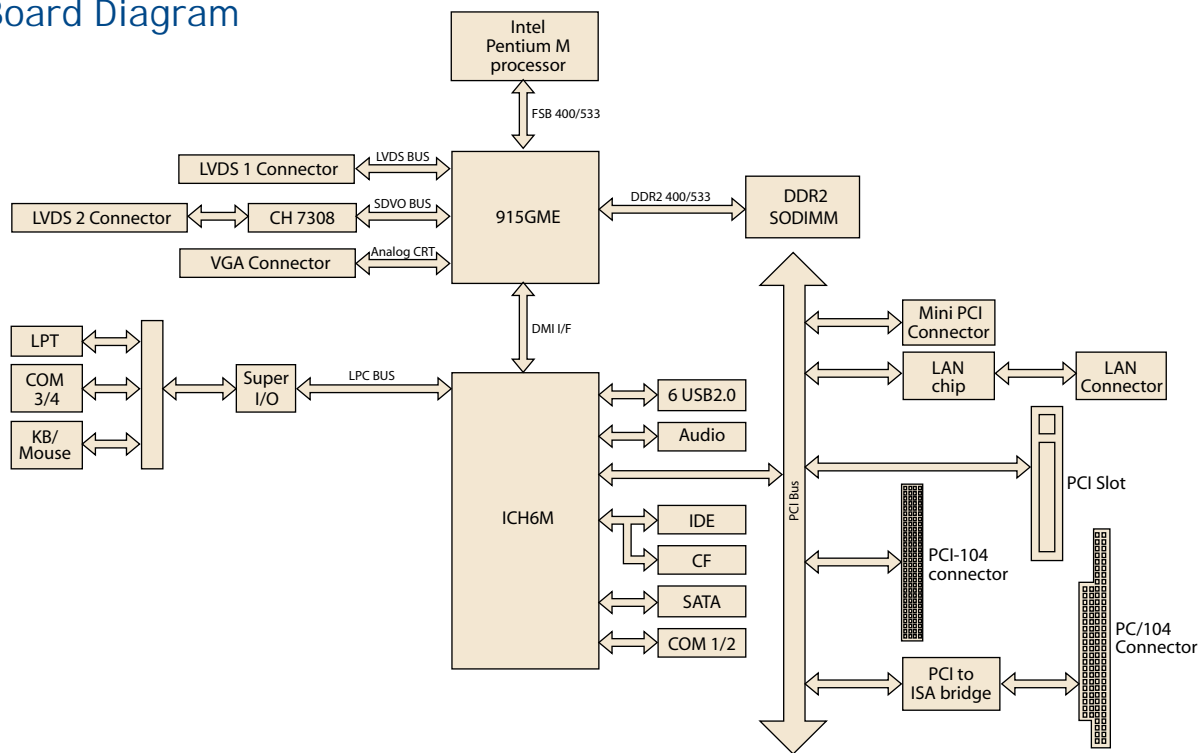
**Utilities:**

- BIOS Flash
- Monitoring

## Specifications

Processor System	CPU	Pentium M 1.4 GHz	Celeron M 1 GHz	Socket Type
	Front Side Bus	400/533 MHz	400/533 MHz	400/533 MHz
	L2 Cache	2 MB	512 KB	Depends on CPU
	Chipset	Intel 915GME + ICH6M		
	BIOS	Award 4-Mbit		
Memory	Technology	DDR2 400/533 MHz		
	Max. Capacity	4 GB		
	Socket	2 x 200-pin SODIMM		
Display	Chipset	Intel 915GME chip integrated. (Extreme Graphics 2)		
	VRAM	DVM T 3.0 supports up to 128 MB		
	Graphics Engine	Mobile Intel GMA 900 3D/2D engine		
	LVDS	1 x 36-bit LVDS1, 1 x 48-bit LVDS2		
	CRT	Up to 1600 x 1200 at 85-Hz and 2048 x 1536 at 75-Hz		
Ethernet	Dual Display	CRT + 48-bit LVDS, 36-bit LVDS1 + 48-bit LVDS2, CRT + 36-bit LVDS		
	Speed	10/100/1000 Mbps on LAN1, LAN2		
Audio	Controller	2 x BroadCOM BCM5721		
	Chipset	Realtek ALC650 AC97		
	Amplifier	Speaker out, CD-input, Line-in, Line-out, Mic-in APA4863RI-TRG		
WatchDog Timer		255-level interval timer, Programmable 1 ~ 255 sec, jumperless selection, generates system reset		
Storage	CompactFlash	Card Type I, Type II (shared 2nd IDE Channel) / USB-DOM (Option)		
	SATA	2, 150 MB/s		
	IDE	1 x EIDE (UDMA 100)		
	Floppy	1 x FDD (Optional)		
Internal I/O	Serial	3 x RS-232, 1 x RS-232/422/485		
	Ethernet	LAN x 2 (RJ-45 connector through the cable)		
	KB/Mouse	1		
	CRT	1		
	USB	6 x USB 2.0		
	IDE	1		
	Parallel(LPT)	1		
	FDD	Share with LPT (Optional)		
	GPIO	8-bit general purpose input/output		
	Expansion	PC/104-Plus slot	1	
MiniPCI socket		1		
PCI Slot		1		
Power	Power Type	AT / ATX		
	Power Supply Voltage	AT +5 V ±5%, +12 V ±5% ATX +5 V ±5%, +12 V ±5%		
	Power Consumption (Typical)	Suspend: 1.86 A @ 5 V, 0.48 A @ 12 V (Pentium M with 1.4 GHz) Suspend: 1.87 A @ 5 V, 0.75 A @ 12 V (Pentium M with 2.0 GHz)		
	Power Consumption (Max, test in HCT)	2.42 A @ 5 V, 1.01 A @ 12 V (Pentium M with 1.4 GHz) 2.43 A @ 5 V, 1.65 A @ 12 V (Pentium M with 2.0 GHz)		
	Power Management	APM, ACPI		
	Battery	Lithium 3 V / 196 Mah		
Environment	Operating	0 ~ 60° C (32 ~ 140° F)		
	Non-Operating	95% @ 60° C Relative Humidity		
Physical Characteristics	Dimensions (L x W)	203 x 146 mm (8" x 5.75")		
	Weight	0.85 kg (1.87 lb) (with Heatsink)		

## Board Diagram



## Ordering Information

Part No.	CPU	L2 Cache	CRT	LVDS1	LVDS2	Giga LAN	Audio	USB 2.0	RS-232	RS-232/422/485	LPT	CF	USB-DOM	KB/MS	PCI Slot	Mini PCI	Thermal Solution	Operating Temp.
PCM-9584F-00A2E	Socket 479	-	Yes	36-bit	48-bit	1	Yes	6	3	1	1	Yes	1	1	1	1	Active	0 - 60° C
PCM-9584FG-00A2E	Socket 479	-	Yes	36-bit	48-bit	2	Yes	6	3	1	1	Yes	1	1	1	1	Active	0 - 60° C
PCM-9584FG-S0A2E	Celeron M 1.0 GHz	512 KB	Yes	36-bit	48-bit	2	Yes	6	3	1	1	Yes	1	1	1	1	Passive	0 - 60° C
PCM-9584FG-S4A2E	Pentium M 1.4 GHz	2 MB	Yes	36-bit	48-bit	2	Yes	6	3	1	1	Yes	1	1	1	1	Passive	0 - 60° C
PCM-9584Z-1GS0A2E	Celeron M 1.0 GHz	512 KB	Yes	36-bit	48-bit	2	Yes	6	3	1	1	Yes	1	1	1	1	Passive	-20 - 80° C

Note: For wide temperature, please contact sales rep.

## Packing List

Part No.	Description	Quantity
	PCM-9584 SBC	1
9689000002	Mini Jumper Pack	1
2006958402	Startup Manual	1
2066958402	Utility	1
1700001112	ATX Power Cable	
	Heat sink 50 x 50 x 30 mm x1 (PCM-9584FG-S0A2E, PCM-9584FG-S4A2E only)	
	Cooler 50 x 50 x 22 mm x1 (PCM-9584FG-00A2E only)	

## Optional Accessories

Part No.	Description
PCM-10586-9584E	Wiring kit for PCM-9584
1703100260	USB cable (26 cm)
1703100121	USB cable (12 cm)
PCM-110-00A3E	1-slot PCI riser card for 5.25" biscuits
PCM-120-00A3E	2-slot PCI riser card for 5.25" biscuits
PCM-200-00A2E	PCI-104 to PCI bus module

## Embedded OS

Embedded OS	Part No.	Description
Win XPE	2070008810	Image XPE FP2007 PCM-9584 V3.01 ENG
	2070009372	Image XPE WES2009 PCM-9584 V4.0 ENG ECG
	2070009373	Image XPE WES2009 PCM-9584 V4.0 MUI24 ECG

