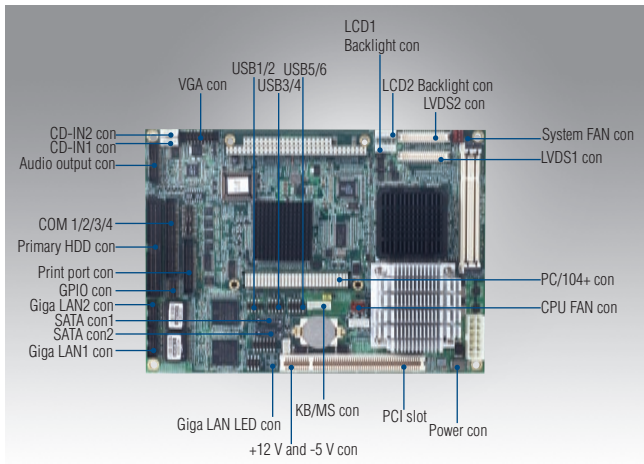


# PCM-9584

**Onboard Intel® Pentium® M EBX SBC  
with Audio, VGA/2 LVDS (36-bit, 48-bit)/  
2 GbE LAN/Audio/4 COM/6 USB/2 SATA**



## Features

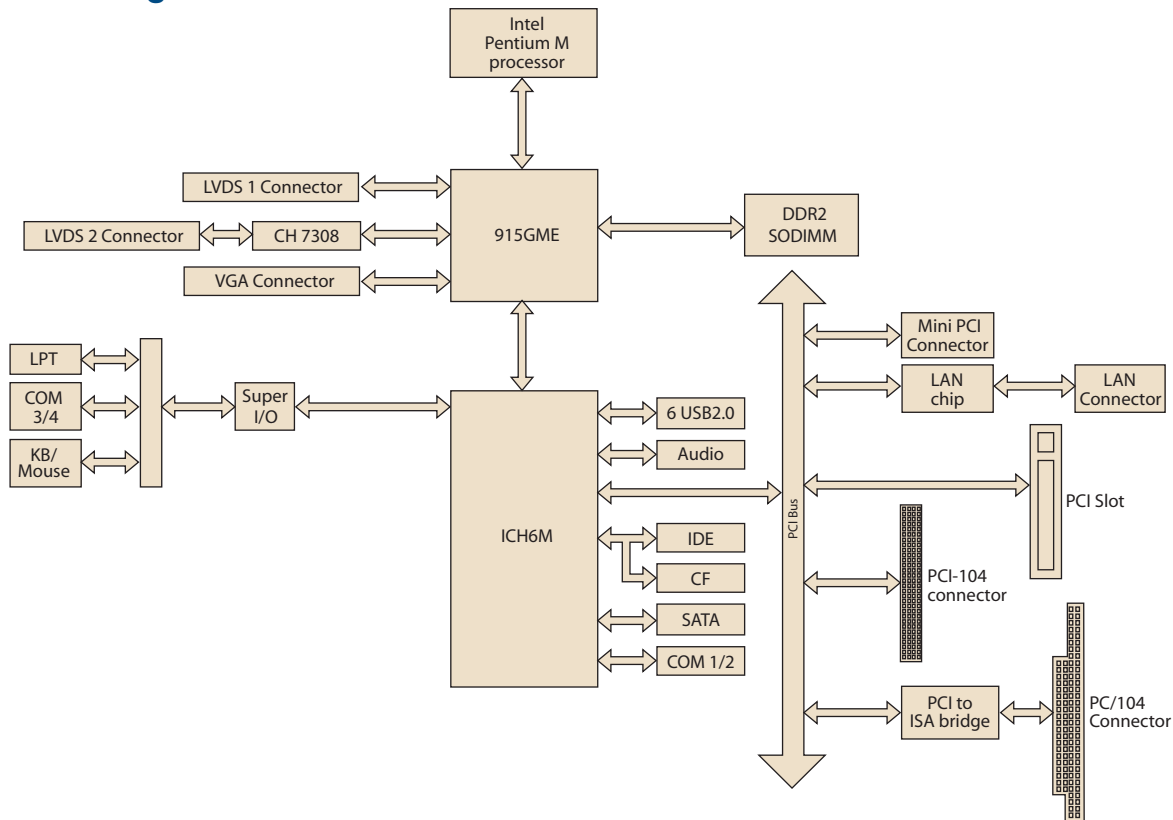
- Embedded Intel® Pentium® M/ Celeron® M in 400/533 FSB
- Supports 400/533 MHz DDR2 SODIMM
- Integrate Intel Graphics Media Accelerator (GMA) 900
- Supports Dual LCD (48-bit LVDS / 36-bit LVDS/ VGA)
- Supports two Ethernet up to 10/100/1000 Mbps
- Supports 6 x USB 2.0 ports, 4 COMs, 2 x SATA Ports (300 MB/s)
- PC/104-Plus, One PCI Slot, One Mini- PCI slot, 8 bit GPIO
- Wide temperature optional



## Specifications

Processor System	CPU	Embedded Intel Pentium M 1.4 GHz, Celeron M 1.0 GHz, Socket type
	Front Side Bus	400/533 MHz
	L2 Cache	512 KB – 2 MB
	Chipset	Intel 915GME + ICH6M
	BIOS	Award 4 Mbit
Memory	Technology	DDR2 400/533 MHz
	Max. Capacity	2 GB
	Socket	2 x 200-pin SODIMM
SSD	CompactFlash	Card Type I, Type II (shared 2nd IDE Channel)/ USB-DOM (option)
I/O Interface	LPT	1
	RS-232	3
	RS-232/422/485	1
	K/B	1
	Mouse	1
	USB	6 x USB 2.0
	Audio	AC97, Speaker out, CD-input, Line-in, Line-out, Mic-in
GPIO	8-bit general purpose input/output	
SATA	Max. Data Transfer Rate	150
	Channel	2
EIDE	Mode	UDMA 100
	Channel	1
Expansion Slot	PCI	1
	miniPCI	1
	PC/104-Plus	1
Ethernet	Speed	10/100/1000Mbps
	Controller	2 x BroadCOM BCM5721
	Interface	RJ-45 by cable
Display	Controller	Intel 915GME
	VRAM	Optimized Shared Memory Architecture up to 128 MB system memory
	LVDS LCD	1 x 36-bit LVDS, 1 x 48-bit LVDS
Environment	Dual Independent Display	CRT + 48-bit LVDS under Windows system, 36-bit LVDS (915GME) + 48-bit LVDS (Chrontel) LCD Panel
	Operation Temperature	0 ~ 60° C (32 ~ 140° F)
	Operating Humidity	0% ~ 90% relative humidity, non-condensing
Power	Power Type	AT / ATX
	Power Supply Voltage	+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	
Watchdog Timer	Battery	Lithium 3 V / 196 mAH
	Output	System reset
Physical Characteristics	Interval	Programmable 1 ~ 255 sec
	Dimensions (L x W)	203 x 146 mm (8" x 5.75")
	Weight	0.85 kg (1.87 lb) (weight of total package)

## Board Diagram



## Ordering Information

Part No.	CPU	L2 Cache	Chipset	SDRAM DIMM	CRT	LVDS1	LVDS2	10/100	Giga LAN	Audio	USB 2.0	RS-232	RS-232/422/485	LPT	FDD	CF	USB-DOM	KB/MS	PCI Slot	Mini PCI	Thermal Solution	Operation Temp.
PCM-9584F-00A2E	Socket 479	--	915GME	2	Yes	36-bit	48-bit	--	1	Yes	6	3	1	Yes	--	Yes	Yes	Yes	1	1	Active	0 ~ 60° C
PCM-9584FG-00A2E	Socket 479	--	915GME	2	Yes	36-bit	48-bit	--	2	Yes	6	3	1	Yes	--	Yes	Yes	Yes	1	1	Active	0 ~ 60° C
PCM-9584FG-S0A2E	Celeron M 1.0 GHz	512 KB	915GME	2	Yes	36-bit	48-bit	--	2	Yes	6	3	1	Yes	--	Yes	Yes	Yes	1	1	Passive	0 ~ 60° C
PCM-9584FG-S4A2E	Pentium M 1.4 GHz	2 MB	915GME	2	Yes	36-bit	48-bit	--	2	Yes	6	3	1	Yes	--	Yes	Yes	Yes	1	1	Passive	0 ~ 60° C
PCM-9584Z-S0A2E	Celeron M 1.0 GHz	512 KB	915GME	2	Yes	36-bit	48-bit	--	2	Yes	6	3	1	Yes	--	Yes	Yes	Yes	1	1	Passive	-20 ~ 80° C

## 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
MIO-3120-00A1E	Mini PCI interface to Wireless 802.11 b/g communication module
MIO-3121-00A1E	Mini PCI to 4 COM Module
MIO-3140-00A1E	Mini PCI interface to SATA storage module
MIO-3150-00A1E	Mini PCI interface to video capture module
MIO-3130-00A1E	Mini PCI Interface to Dual LAN Communication Module
MIO-3131-00A1E	Mini PCI Interface to Single Giga LAN Communication Module

## Packing List

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