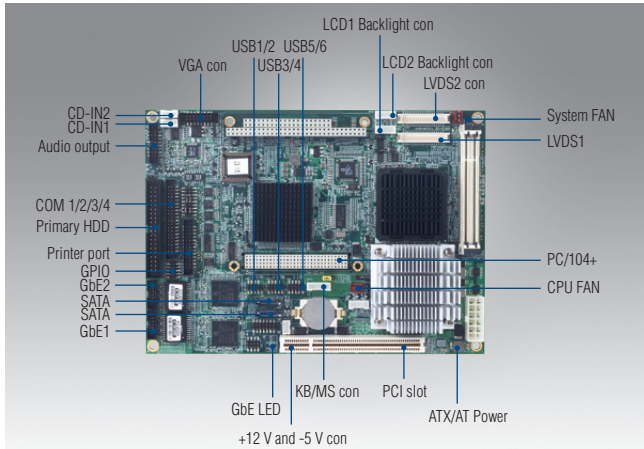


PCM-9584

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



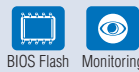
Features

- Intel® Pentium® M/Celeron® M processor
- Dual LVDS (48-bit LVDS/36-bit LVDS)/VGA
- 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:



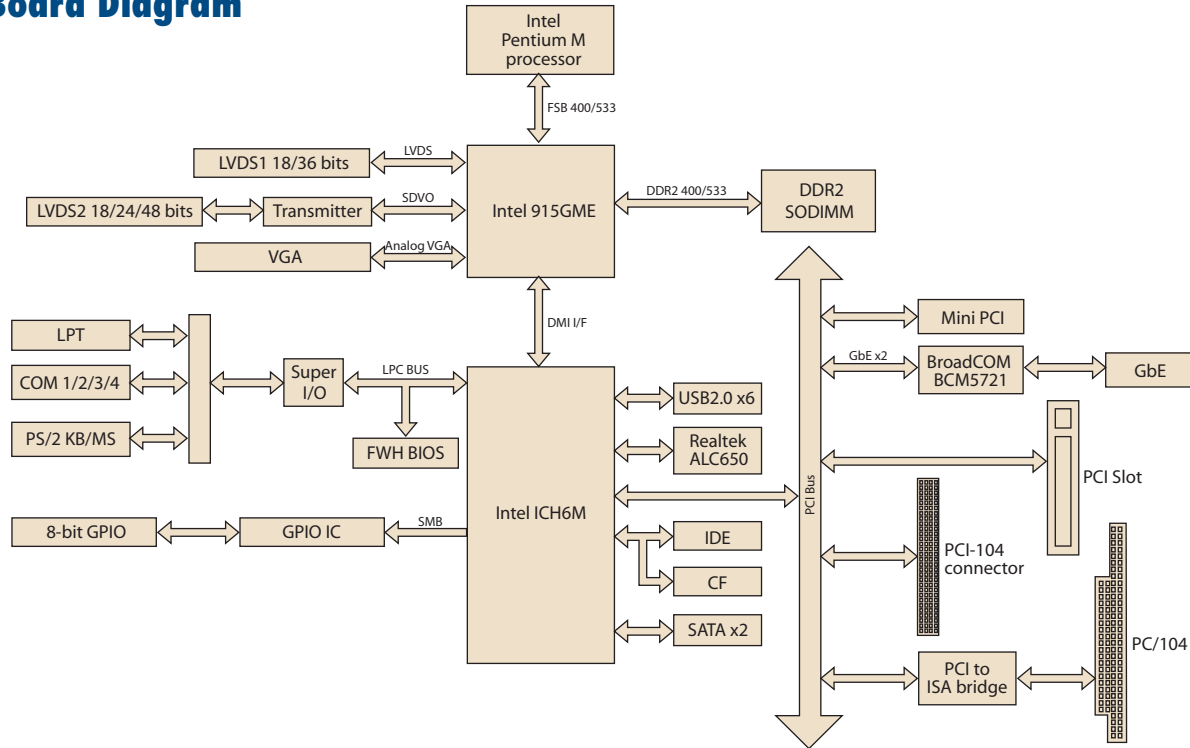
Utilities:



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		
Memory	BIOS	Award 4-Mbit		
	Technology	DDR2 400/533 MHz		
	Max. Capacity	4 GB		
Display	Socket	2 x 200-pin SODIMM		
	Chipset	Intel 915GME chip integrated. (Extreme Graphics 2)		
	VRAM	DVMT 3.0 supports up to 128 MB		
	Graphics Engine	Mobile Intel GMA 900 3D/2D engine		
	LVDS	LVDS1 (single channel 18-bit or dual channel 36-bit LVDS) LVDS2 (single channel 18/24-bit or dual channel 36/48-bit LVDS)		
	VGA	Up to 1600 x 1200 at 85-Hz and 2048 x 1536 at 75-Hz		
Ethernet	Dual Display	VGA + 48-bit LVDS, 36-bit LVDS1 + 48-bit LVDS2, VGA + 36-bit LVDS		
	Speed	10/100/1000 Mbps on GbE1, GbE2		
	Controller	2 x BroadCOM BCM5721		
Audio	Connector	Box header		
	Chipset	Realtek ALC650 AC97		
WatchDog Timer	Amplifier	Speaker out, CD-input, Line-in, Line-out, Mic-in		
		Max 2.2W/ch Stereo into a 3Ω Load		
Storage	WatchDog Timer	255-level interval timer, Programmable 1 – 255 sec, jumperless selection, generates system reset		
	CompactFlash	CompactFlash type I/II		
	SATA	2 SATA (Max. Data Transfer Rate 150 MB/s)		
	IDE	1 x EIDE (UDMA 100)		
Internal I/O	Floppy	1 x FDD (Optional)		
	Serial	3 x RS-232 (COM1/3/4), 1 x RS-232/422/485 (COM2)		
	Ethernet	ESD protection for RS-232: Air gap ±15kV, Contact ±8kV		
	PS/2 KB/Mouse	GbE x 2 (RJ-45 connector through the cable)		
	VGA	1		
	USB	6 x USB 2.0		
	IDE	1		
	Parallel (LPT)	1		
	FDD	Share with LPT (Optional)		
	GPIO	8-bit GPIO		
Expansion	PC/104-Plus slot	1		
	Mini PCI socket	1		
	PCI Slot	1		
Power	Power Type	AT / ATX		
	Power Supply Voltage	AT +5 V ±5%, +12 V ±10% ATX +5 V ±5%, +12 V ±10%		
	Power Consumption (Typical)	Suspend: PCM-9584FG-S4A2E: 1.86 A @ 5 V, 0.48 A @ 12 V (15.06 W)		
	Power Consumption (Max, test in HCT)	PCM-9584FG-S4A2E: 2.42 A @ 5 V, 1.01 A @ 12 V (24.22 W)		
	Power Management	APM, ACPI		
	Battery	Lithium 3 V / 196 mAh		
Environment	Operating	0 – 60° C (32 – 140° F) (Operating humidity: 40° C @ 95% RH non-condensing)		
	Non-Operating	-40° C – 85° C and 60° C @ 95% RH non-condensing		
Physical Characteristics	Dimensions (L x W)	203 x 146 mm (8" x 5.75")		
	Weight	0.7 kg (1.54 lb) (with heatsink)		
	Total Height	42.6mm (PCM-9584 with CPU cooler)		
	(with cooler + PCB + Bottom)	25.2mm (PCM-9584 W/O CPU cooler)		

Board Diagram



Ordering Information

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

Note: For wide temperature, please contact sales rep.

Note: Passive = fanless; Active = with fan

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	1
1960007416	Heat sink 50 x 50 x 30 mm x1 (PCM-9584FG-S0A2E, PCM-9584FG-S4A2E only)	1
1750000348	Cooler 50 x 50 x 22 mm x1 (PCM-9584FG-00A2E only)	1

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
QNX		6.3.2