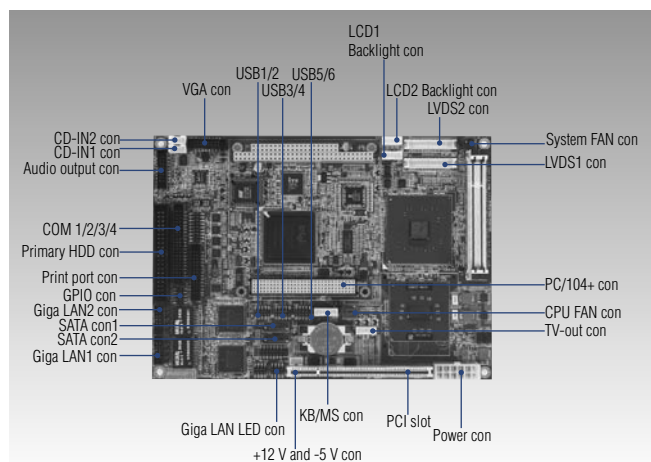


PCM-9584

**Onboard Intel® Pentium® M EBX SBC
with Audio, VGA/2 LVDS and LAN**



Specifications

General

- **CPU**
Embedded Intel Pentium M (Banias/Dothan)/Celeron M Processor supported
Pentium M 2.0 GHz PCM-9584FG-U0A1E
Pentium M 1.4 GHz PCM-9584FG-S4A1E
Celeron M 1.0 GHz PCM-9584FG-S0A1E
uFCPGA2 (478pin) PCM-9584FG-00A1E
Depends on CPU from 512KB to 2 MB
- **2nd Cache Memory**
Intel 915 GM GMCH/ICH6M Chipset
- **System Chipset**
AWARD® 512 kbit Flash BIOS
- **BIOS**
2 x 200-pin SODIMM sockets, Double Data Rate (DDR2)
- **System Memory**
128 MB to 2 GB, accept 128/256/512/1024 MB DDR2 up to 400/533 DRAM
- **Power Management**
APM1.2, ACPI support
- **SSD**
Supports CompactFlash® Card TYPE I/II (shared 2nd IDE Channel) /USB-DOM (option)
- **Watchdog Timer**
255-level interval timer, setup by software, Super I/O integrated, SMC Controller
- **Expansion Interface**
Supports PCI 104, Mini PCI interface, 1 x PCI Slot, and 8-bit PC/104 ISA Connector
- **Battery**
Lithium 3 V/196 mAH

I/O

- **I/O Interface**
1 x EIDE (UDMA 100), 2 x SATA 150, 1 x K/B, 1 x Mouse, 3 x RS232, 1 x RS232/422/485, 1 x LPT
- **USB**
6 x USB 2.0 compliant Ports
- **Audio**
AC97 Audio codec ALC 650
Supports Speaker out, CD-input, Line-in, Line-out, Microphone
- **IrDA**
-
- **GPIO**
8-bit general purpose 4 input/4 output

Ethernet

- **Chipset**
2 x BroadCOM BCM5721
- **Speed**
10/100/1000 Mbps
- **Interface**
1 x RJ45 by cable
- **Standard**
IEEE 802.3u 100Base-T & IEEE 802.3ab 1000Base-T

Features

- Embedded Dothan CPU (2 MB L2 cache), Intel® Celeron® M 90 nm and Pentium® M
- Supports 533 MHz DDR2 SODIMM
- Supports Dual LCD (36-bit LVDS + 48-bit LVDS)
- Supports two Ethernet up to 10/100/1000 Mbps
- Supports six USB 2.0 ports
- Supports four COMs
- PC/104-Plus Supported
- Extended temperature optional

Display

- **Chipset**
Intel 915GM chip integrated. (Extreme Graphics 2)
- **Memory Size**
Optimized Shared Memory Architecture, supports up to 128 MB frame buffer using system memory
- **Resolution**
CRT Display mode: pixel resolution up to 1600 x 1200 at 85-Hz and 2048 x 1536 at 75-Hz
LCD Display mode: Dual channel LVDS panel supports up to UXGA panel resolution with frequency range from 25 MHz to 112 MHz
- **LCD Interface**
2 Channel LVDS 1 (36-bit), LVDS 2 (48-bit)
- **LVDS**
Hirose connector support up to 2 channel (1 x 48/1 x 36-bit) LVDS LCD Panel
- **Dual Ind. Display**
CRT + 48-bit LVDS; CRT + TV-Out; LVDS + TV-Out under Windows system 36-bit LVDS (915 GM) + 48-bit LVDS (Chrontel) LCD Panel

Mechanical and Environmental

- **Dimension (L x W)**
203 x 146 mm (8" x 5.75")
- **Weight**
0.85 kg (weight of total package)
- **Operating Temperature**
0 ~ 60° C (32 ~ 140° F)
- **Operating Humidity**
0% ~ 90% relative humidity, non-condensing
- **Storage Temperature**
-20 ~ 70° C (accessories Storage temperature: -20 ~ 60° C)
- **Storage Humidity**
95% @ 60° C

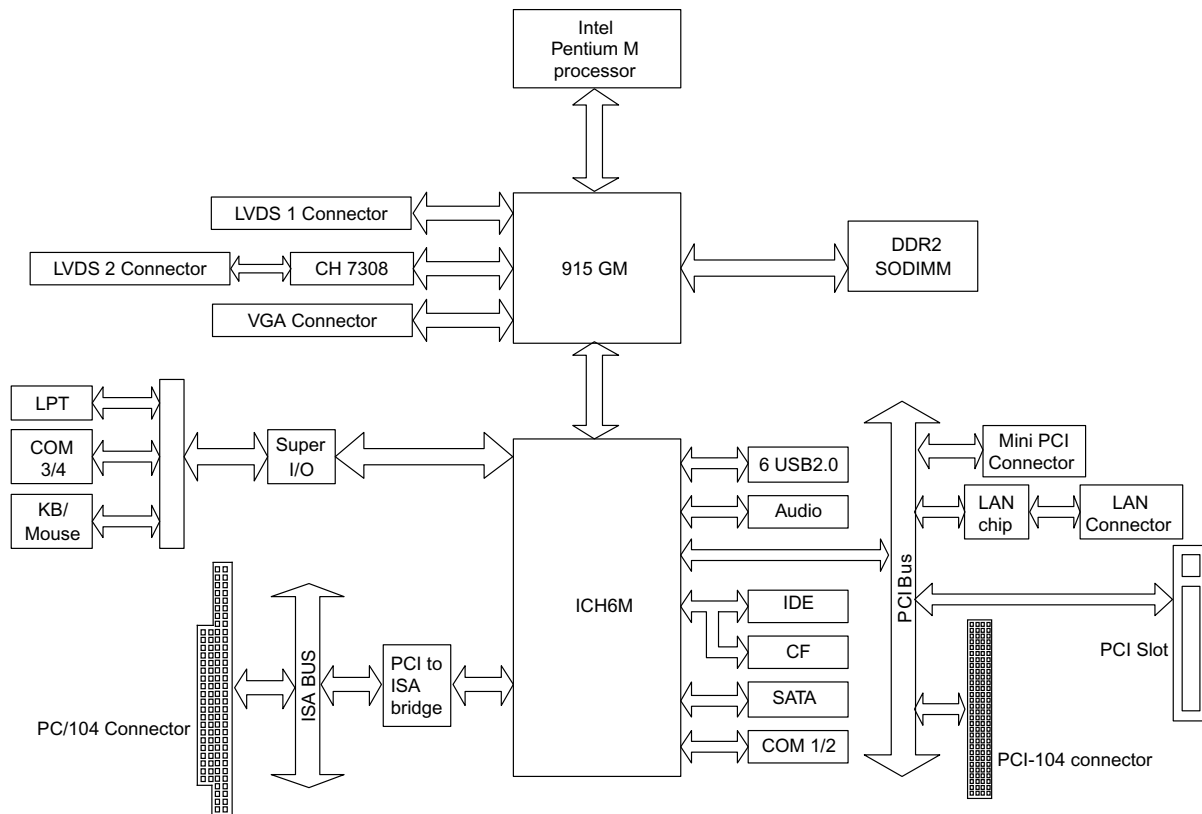
Power

- **Power Supply Voltage**
+5 V ±5%, +12 V ±5%
- **Power Consumption**
(Pentium M with 1.4 GHz)
Max (HCT): 2.42 A @ 5 V, 1.01 A @ 12 V
Suspend: 1.86 A @ 5 V, 0.48 A @ 12 V
(Pentium M with 2.0 GHz)
Max (HCT): 2.43 A @ 5 V, 1.65 A @ 12 V
Suspend: 1.87 A @ 5 V, 0.75 A @ 12 V

Packing List

- 1 x PCM-9584 SBC
- 1 x Mini Jumper Pack (p/n:9689000002)
- 1 x Startup Manual
- 1 x Utility CD
- 1 x ATX Power Cable (p/n:1700001112)

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-9584FG-00A1E	Socket 479	--	915 GM	2	Yes	36-bit	48-bit	--	2	Yes	6	3	1	Yes	--	Yes	Yes	Yes	1	1	Active	0 ~ 60° C
PCM-9584FG-S0A1E	Celeron M 1.0 GHz	512 KB	915 GM	2	Yes	36-bit	48-bit	--	2	Yes	6	3	1	Yes	--	Yes	Yes	Yes	1	1	Passive	0 ~ 60° C
PCM-9584FG-S4A1E	Pentium M 1.4 GHz	2 MB	915 GM	2	Yes	36-bit	48-bit	--	2	Yes	6	3	1	Yes	--	Yes	Yes	Yes	1	1	Passive	0 ~ 60° C
PCM-9584FG-U0A1E	Pentium M 2.0 GHz	2 MB	915 GM	2	Yes	36-bit	48-bit	--	2	Yes	6	3	1	Yes	--	Yes	Yes	Yes	1	1	Active	0 ~ 60° C
PCM-9584Z-S4A1E	Pentium M 1.4 GHz	2 MB	915 GM	2	Yes	36-bit	48-bit	--	2	Yes	6	3	1	Yes	--	Yes	Yes	Yes	1	1	Passive	-20 ~ 80° C

Optional Accessories

- 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-3110-00A1E Mini PCI to USB interface connection hub
- 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