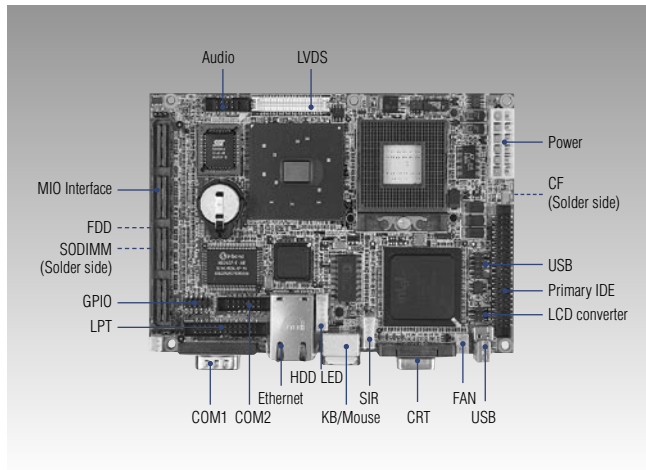


PCM-9380

3.5" SBC with Intel® Pentium® M,
VGA, LVDS, LAN, USB, MIO



Features

- Embedded Features Intel® Pentium® M/Celeron® M Processor
- ECC DDR memory support
- 1000BASE-T Ethernet
- 2-channel 36 bits LVDS LCD display
- Three USB 2.0 ports
- MIO expansion
- Intel Speed Stepping (GV3) Technology
- +5 V and +12 V power; or single +5 V power

Specifications

General

- **CPU**
Embedded Intel Pentium M (Banias/Dothan)/LV/ULV Celeron M Processor supported
Celeron M 373 1.0 G (512 KB)
Celeron M 600 (512 KB)
Pentium M 1.1 GHz
uFCPGA2 (478-pin)
Optional:
Pentium M 745 1.8 GHz @ 400 MHz FSB
Pentium M 1.6 GHz @ 400 MHz FSB
Pentium M 738 1.4 GHz @ 400 MHz FSB
Celeron M 320 1.3 GHz @ 400 MHz FSB
- **2nd Cache Memory**
Depends on CPU type from 512 KB to 2 MB
- **System Chipset**
Intel 855GME GMCH/ICH4 chipset
- **BIOS**
AWARD® 4 Mbit Flash BIOS
- **System Memory**
1 x SODIMM socket, supports ECC Double Data Rate (DDR) 128 MB to 1 GB, accept 128/256/512/1000 MB DDR200/266/333 DRAM
- **Power Management**
Supports APM1.2, ACPI2.0, wake on LAN, and modem ring-in functions
- **SSD**
Supports CompactFlash Card Type I/II (share 2nd IDE channel)
- **WatchDog Timer**
255 levels timer interval, setup by software.
- **Expansion Interface**
MIO interface, integrated PCI 2.0, LPC, USB2.0, SMBus, AC97 and DVO Bus
- **Battery**
Lithium 3 V/196 mA

I/O

- **I/O Interface**
1 x EIDE, 1 x FDD, 1 x K/B, 1 x Mouse, 1 x RS232/422/485, 1 x RS232, 1 x LPT (2nd internal RS-232 optional)
- **USB**
3 x USB ports, USB 2.0 compliant
- **Audio**
Supports AC97 Audio stereo sound, with Microphone in, Line-In, Line-Out
- **IrDA**
115 kbps, SIR, IrDA 1.0 complaint
- **GPIO**
8-bit general purpose Input / Output
- **SMBus**
System Management Bus for advanced monitoring/control interface

Ethernet

- **Chipset**
Intel 82551QM (with Wake on LAN)
Intel 82541 (Gigabit) (Optional)
- **Speed**
10/100/1000 Mbps, 10/100 Mbps
- **Interface**
1 x RJ45
- **Standard**
IEEE 802.3 z/ab (1000BASE-T) or
IEEE 802.3u (100 BASE-T) protocol compatible

Display

- **Chipset**
Intel 855GME/GMCH
- **Memory Size**
Optimized Shared Memory Architecture, supports 64 MB frame buffer using system memory
- **Resolution**
CRT display Mode: pixel resolution up to 1600 x 1200 @ 85 Hz
- **LCD Interface**
N/A
- **LVDS Interface**
LVDS display Mode: up to UXGA panel resolution with frequency range from 25 MHz to 112 MHz; 16:9 wide screen panel supported
- **LCD Interface**
Supports 2-channel (36-bit) LVDS LCD Panel
- **TV-Out**
optional, by MIO-6254 module
- **Dual Independent Display**
CRT + LVDS
CRT + DVI / LVDS+ DVI (w/MIO-6254)

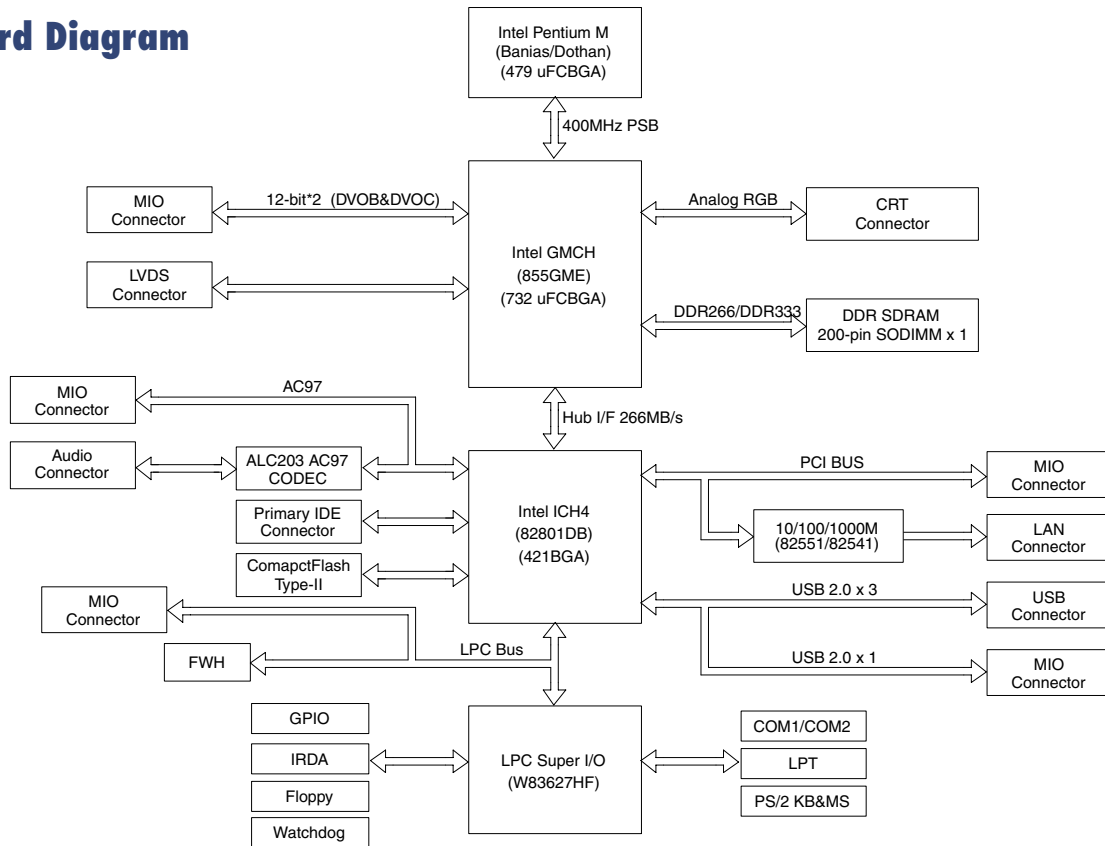
Mechanical and Environmental

- **Dimension (LxW)**
146 x 102 mm (5.7" x 4")
- **Weight**
0.85 kg (weight of total package)
- **Operation Temperature**
0 ~ 60° C (32 ~ 140° F)
- **Operating Humidity**
10% ~ 90% Relative Humidity, non condensing

Power

- **Power Supply Voltage**
AT/ATX, +5 V ±5%, +12 V ±5%, or supports single +5 V power only
- **Power Consumption**
(Pentium M 1.3 G, 256 MB DDR333)
+5 V @ 4.26 A +12 V @ 0.13 A

Board Diagram



Packing List

- 1 x PCM-9380 SBC
- 1 x Mini Jumper Pack (p/n: 9689000002)
- 1 x Startup Manual
- 1 x Utility CD
- 1 x Audio Cable (p/n: 1703100152)
- 1 x IDE 44-pin (p/n: 1701440351)
- 1 x USB 2 Port Cable (p/n: 1703100121)
- 1 x Parallel Port Cable (p/n: 1700260250)
- 1 x Keyboard/Mouse Cable (p/n: 1700060202)
- 1 x 26-34-pin FDD adapter (p/n: 9681000044)
- 1 x FDD Cable for Slim FDD (p/n: 1701260125)
- 1 x Flat Cable 34 pin for FDD (p/n: 1701340700)
- 1 x Second Serial Port Cable (p/n: 1701140201)
- 1 x ATX Power Cable 20P-12P Cable (p/n: 1700000265)

Optional Accessories

- **MIO-6250** MIO module w/ 3 x Fast Ethernet with LAN bypass
- **MIO-6251** MIO module w/ 2 x Mini PCI, Audio
- **MIO-6253** MIO module w/ 4 COM port
- **MIO-6254** MIO module w/ 1 x DVI, S-Video, Audio
- **MIO-6255** MIO module w/ 2 x Cardbus
- **MIO-6260** MIO module w/ 4 x USB, 2 x COM, 1 x LAN

Embedded OS

- **2070000584** Win CE 4.2 P-M Core Image, PCM-938x, 2 COM, English, V 1.10 (17.2 MB) (Optional)
- **2070000585** Win CE 4.2 P-M Pro Image, PCM-938x, 2 COM, English, V 1.10 (29.1 MB) (Optional)
- **2070000586** Win CE 4.2 P-M Plus Image, PCM-938x, 2 COM, English, V 1.10(29.9 MB) (Optional)
- **2070000765** Image CE 5.0 Pro Plus EN for P-M with 2 COM
- **2070000605** Win XPE SP2 Image, PCM-938x, English, V2.10 (440 MB) (Optional)

Ordering Information

Part No.	CRT	LVDS	DVI	TV out	10/100	Giga	USB	RS-232	RS-232/422/485	LPT	GPIO	IrDA	CF	MIO
PCM-9380F-00A2E	1	1	-	-	1	-	3	1	1	1	4 in, 4 out	1	1	1
PCM-9380FG-00A2E	1	1	-	-	-	1	3	1	1	1	4 in, 4 out	1	1	1
PCM-9380F-M0A2E	1	1	-	-	1	-	3	1	1	1	4 in, 4 out	1	1	1
PCM-9380F-S0A2E	1	1	-	-	1	-	3	1	1	1	4 in, 4 out	1	1	1
PCM-9380F-S1A2E	1	1	-	-	1	-	3	1	1	1	4 in, 4 out	1	1	1
PCM-9380S-54A2E	1	1	1	1	1	-	3	1	1	1	4 in, 4 out	1	512 MB	1
PCM-9380S-60A2E	1	1	-	-	2	-	7	3	1	1	4 in, 4 out	1	512 MB	1