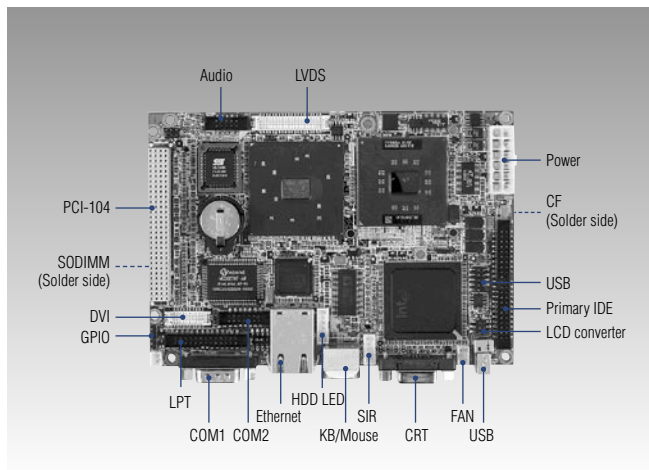


PCM-9381

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



Features

- Embedded Intel® Pentium® M/Celeron® M Processor
- Supports ECC DDR memory
- Supports 1000BASE-T Ethernet (Optional)
- Supports 2 channel 36 bits LVDS LCD display
- Supports 3 x USB 2.0 ports
- Supports Intel SpeedStepping (GV3) Technology
- Supports +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 600 (512 KB) PCM-9381F-M0A1E
Celeron M 373 1.0 G (512 KB) PCM-9381F-S0A1E
Pentium M 1.1 GHz PCM-9381F-S1A1E
uFCPGA2 (478 pin) PCM-9381F-00A1E/
PCM-9381FG-00A1E

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
Depends on CPU type from 512 KB to 2 MB

- 2nd Cache Memory
- System Chipset
- BIOS
- System Memory

Intel 855GME GMCH/ICH4 chipset
AWARD® 4 Mbit BIOS
1 x SODIMM socket, supports ECC Double Data Rate
(DDR) 128 MB to 1 GB, accept 128/256/512/1024 MB
DDR200/266/333 DRAM

- Power Management
- SSD
- WatchDog Timer
- Expansion Interface
- Battery

APM 1.2, ACPI supported
Supports CompactFlash type I (share 2nd IDE channel)
255 levels timer interval, setup by software.
PCI-104
Lithium 3 V/196 mAh

I/O

▪ I/O Interface

1 x EIDE, 1 x K/B, 1 x Mouse, 1 x RS232/422/485,
1 x RS232, 1 x LPT

- USB
- Audio
- GPIO
- I/O Expansion

3 x USB ports, USB 2.0 compliant
Supports AC97 Audio stereo sound.
4 bit general purpose Input / Output
PCI-104

Ethernet

▪ Chipset

Intel 82551ER
Intel 82551QM (optional) (with optional BIOS)
Intel 82541 (Gigabit) (Optional)

- Speed
- Interface
- Standard

10/100/1000 Mbps, 10/100 Mbps
1 x RJ45
IEEE 802.3 z/ab (1000BASE-T) or
IEEE 802.3u (100 BASE-T) protocol compatible

Display

- Chipset
- Memory Size

Intel 855GME/GMCH
Optimized Shared Memory Architecture, supports 64
MB frame buffer using system memory.
CRT display Mode: pixel resolution up to 1600 x 1200
@ 85 Hz and 2048 x 536 @ 75 Hz
LVDS display Mode: up to UXGA panel resolution with
frequency range from 25 MHz to 112 MHz

▪ Resolution

Supports 2 channel (2 x 18-bit) LVDS LCD Panel

- LVDS Interface
- TV-Out
- Dual Independent Display

N/A
CRT + LVDS
CRT + DVI / LVDS+ DVI

Mechanical and Environmental

- Dimension (L x W)
- Weight
- Operation Temperature
- Operating Humidity

146 x 102 mm (5.7" x 4")
0.85 kg (weight of total package)
0 ~ 60° C (32 ~ 140° F)
10% ~ 90% Relative Humidity, non condensing

Power

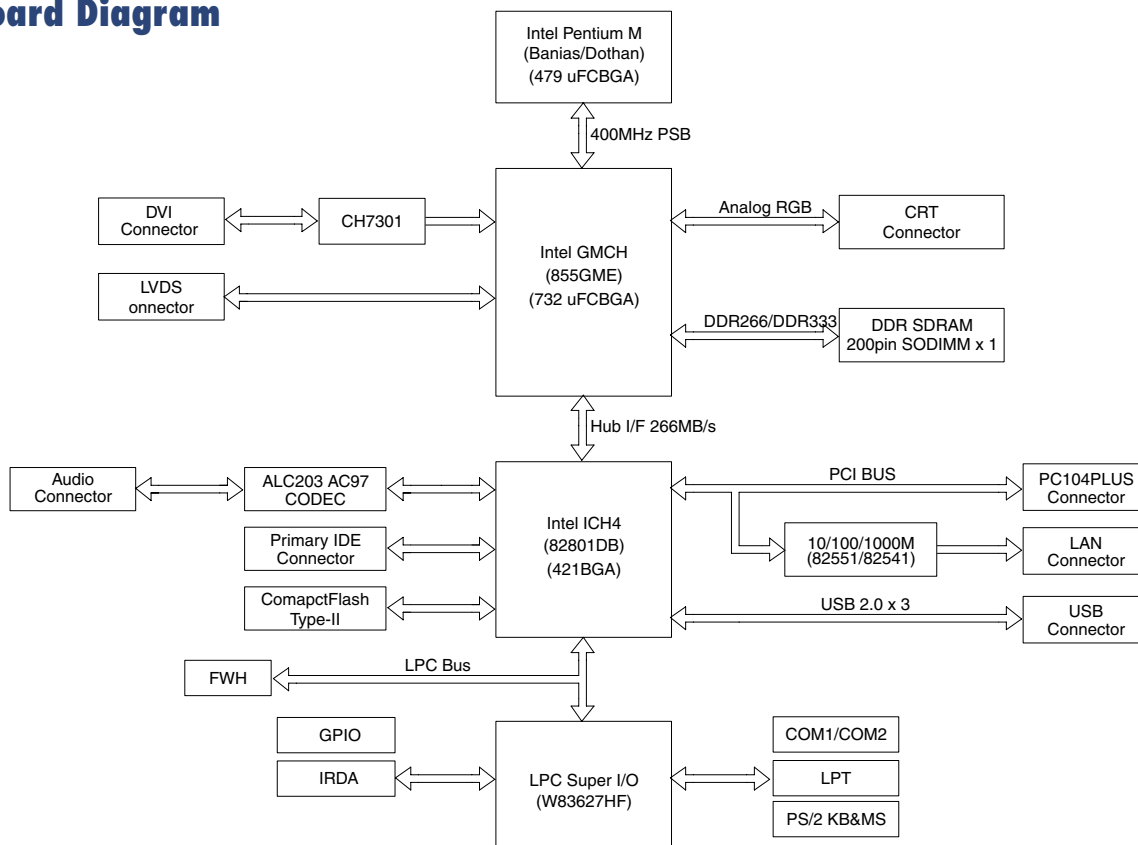
▪ Power Supply Voltage

AT or ATX power, +5 V ±5%, +12 V ±5% ; or supports
single +5 V power

▪ Power Consumption

(Pentium M 1.8 GHz, 256 MB DDR266)
Typical: +5 V @ 3.0 A, +12 V @ 0.04 A
Max: +5 V @ 4.26 A, +12 V @ 0.13 A

Board Diagram



Packing List

- 1 x PCM-9381 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 Second Serial Port Cable (p/n: 1701140201)
- 1 x ATX Power Cable 20P-12P Cable (p/n: 1700000265)

Ordering Information

Standard

- **PCM-9381F-00A1E** 3.5" SBC, uFCPGA SKT 478 with VGA, LVDS, DVI, LAN, USB
- **PCM-9381F-M0A1E** 3.5" SBC with ULV Celeron M 600 (512 KB), VGA, LVDS, DVI, LAN, USB
- **PCM-9381F-S0A1E** 3.5" SBC with ULV Celeron M 1.0 G (512 KB), VGA, LVDS, DVI, LAN, USB
- **PCM-9381F-S1A1E** 3.5" SBC with Intel Pentium M 1.1 G, VGA, LVDS, DVI, LAN, USB

Optional

- **1700000410** CABLE DVI-26P/DF13-20P 20 cm

Embedded OS

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