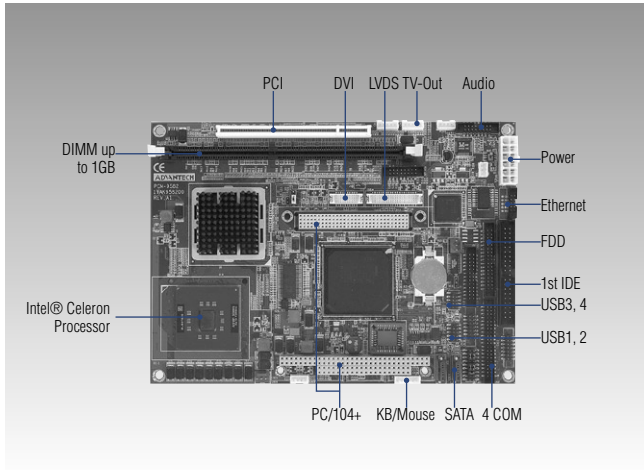


PCM-9582

Onboard Intel® Pentium® M
EBX SBC with Audio, VGA/LCD



Specifications

General

- CPU**
Embedded Intel Pentium M (Banias/Dothan)/Celeron M Processor supported
Celeron M 600 MHz (512 KB) PCM-9582F-M0A1
Pentium M 1.1 GHz PCM-9582F-S1A1
uFCPGA2 (478 pin) PCM-9582F-00A1
PCM-9582FG-00A1
- 2nd Cache Memory** Depends on CPU type from 512 KB to 2 MB
- System Chipset** Intel 855GME GMCH/ 6300ESB Chipset
- BIOS** AWARD® 512 kbit Flash BIOS
- System Memory** 200-pin DIMM socket, support ECC Double Data Rate (DDR) 128 MB to 1 GB, accept 128/256/512/1024 MB DR200/266/333 DRAM
- Power Management** APM1.2, ACPI support
- SSD** Supports CompactFlash® Card TYPE I/II (shared 2nd IDE Channel)
- WatchDog Timer** Winbond W83627, 255-level timer interval, setup by software
- Expansion Interface** Supports PC/104 (Low Pin Count), PC/104 -Plus and Mini PCI interface
- Battery** Lithium 3 V/196 mAh

I/O

- I/O Interface** 2 x EIDE (UDMA 100), 2 x SATA 150, 1 x FDD, 1 x K/B, 1 x Mouse, 3 x RS232, 1 x RS232/422/485, 1 x LPT
- USB** 4 x USB 2.0 compliant Ports
- Audio** ALC202. AC97 3D surround stereo sound
Supports Speaker out, CD-input, Line-in, Line-out, Microphone
- IrDA** N/A
- GPIO** 8-bit general purpose input/output

Ethernet

- Chipset** Intel 82551ER, optional 82551QM, 82541GI (Gigabit)
- Speed** 10/100 Mbps; (PCM-9582F);
10/100/1000 Mbps (optional) (PCM-9582FG)
- Interface** 1 x RJ45 by cable
- Standard** IEEE 802.3u 100Base-T and IEEE 802.3z/ab
1000Base-T compatible

Features

- Embedded Intel® Pentium® M 1.1 GHz/Intel Celeron® M 600 MHz
- Supports ECC DDR Memory
- EBX form factor standard and support for PC/104-Plus bus
- Supports up to 1000Base-T Ethernet
- Supports 4 x ports Host USB 2.0
- Supports up to 2 channel 48-bit LVDS interface
- Supports Enhanced Intel® Speedstep Technology

Display

- Chipset** Intel 855GME chip integrated. (Extreme Graphics 2)
- Memory Size** Optimized Shared Memory Architecture, supports up to 64 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 (2 x 18-bit) LVDS
- LVDS** Hirose connector support up to 2 channel (2 x 18-bit) LVDS LCD Panel
- TV-Out (Cable optional)** Supports both NTSC/PAL, S-video and Composite Video
- Dual Independent Display** CRT + 48-bit LVDS; DVI/TV-out + 48-bit LVDS;
CRT + DVI

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

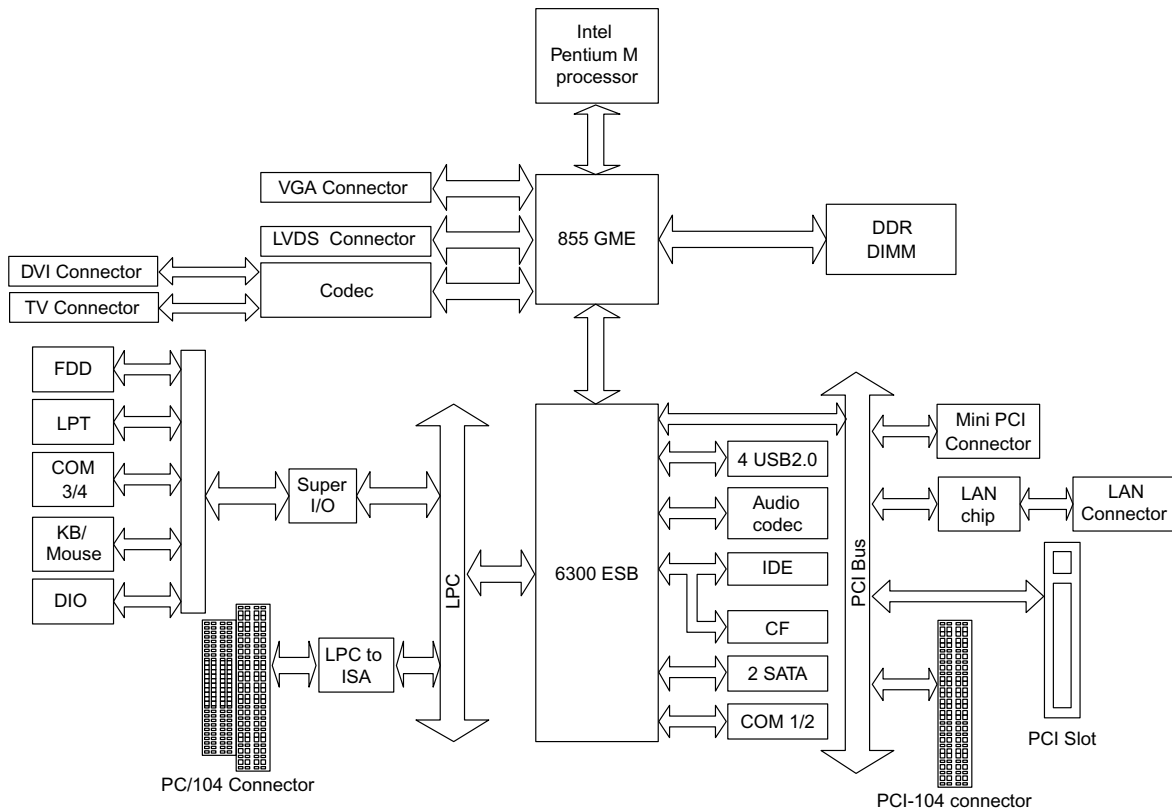
Power

- Power Supply Voltage** +5 V ± 5%, +12 V ± 5%
- Power Consumption** (Celeron M 600 with 256 MB DDR266)
Max(HCT): 2.63 A @ 5 V, 0.04 A @ 12 V
Typical: 2.1 A @ 5 V, 0.03 A @ 12 V
(Pentium M 1.1 G with 256 MB DDR266)
Max (HCT): 3.1 A @ 5 V, 0.15 A @ 12 V
Typical: 2.3 A @ 5 V, 0.13 A @ 12 V
(Pentium M 1.6G with 1.6 GHz with 256 MB)
Max (HCT): 4.8 A @ 5 V, 0.15 A @ 12 V
Typical: 2.54 A @ 5 V, 0.14 A @ 12 V

Packing List

- 1 x PCM-9582 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	CRT	LVDS	DVI	TV-out	10/100	Giga LAN	Audio	USB2.0	RS-232	RS-232/422/485	LPT/FDD/KB/MS	CF	SATA	PCI-104 connector	PC/104 connector	PCI Slot	miniPCI	Thermal Solution	Operation Temp.
PCM-9582F-00A1E	Socket 479	-	Yes	36 bit	Yes	Optional	1	--	Yes	4	3	1	Yes	Yes	2	Yes	Yes	1	1	Active	0 ~ 60° C
PCM-9582FG-00A1E	Socket 479	-	Yes	36 bit	Yes	Optional	--	1	Yes	4	3	1	Yes	Yes	2	Yes	Yes	1	1	Active	0 ~ 60° C
PCM-9582F-S8A1E	LV Pentium M 1.8 GHz	2 MB	Yes	36 bit	Yes	Optional	1	--	Yes	4	3	1	Yes	Yes	2	Yes	Yes	1	1	Passive	0 ~ 60° C
PCM-9582F-S4A1E	LV Pentium M 1.4 GHz	2 MB	Yes	36 bit	Yes	Optional	1	--	Yes	4	3	1	Yes	Yes	2	Yes	Yes	1	1	Passive	0 ~ 60° C
PCM-9582F-S1A1E	LV Pentium M 1.1 GHz	1 MB	Yes	36 bit	Yes	Optional	1	--	Yes	4	3	1	Yes	Yes	2	Yes	Yes	1	1	Passive	0 ~ 60° C
PCM-9582F-M0A1E	Celeron M 600	512 KB	Yes	36 bit	Yes	Optional	1	--	Yes	4	3	1	Yes	Yes	2	Yes	Yes	1	1	Passive	0 ~ 60° C

Optional Accessories

- **PCM-10586-6200** Wiring kit for PCM-9582
- **1703050306** TV-out cable
- **1703100260** USB cable (26 cm)
- **1703100121** USB cable (12 cm)