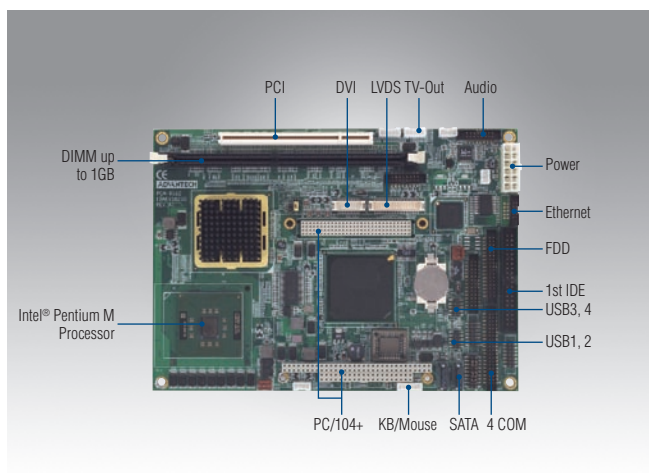


PCM-9582

**Onboard Intel® Pentium® M EBX
SBC with LAN/LVDS/DVI/VGA/Audio/
4 COM/4 USB/2 SATA/PC/104+**



Features

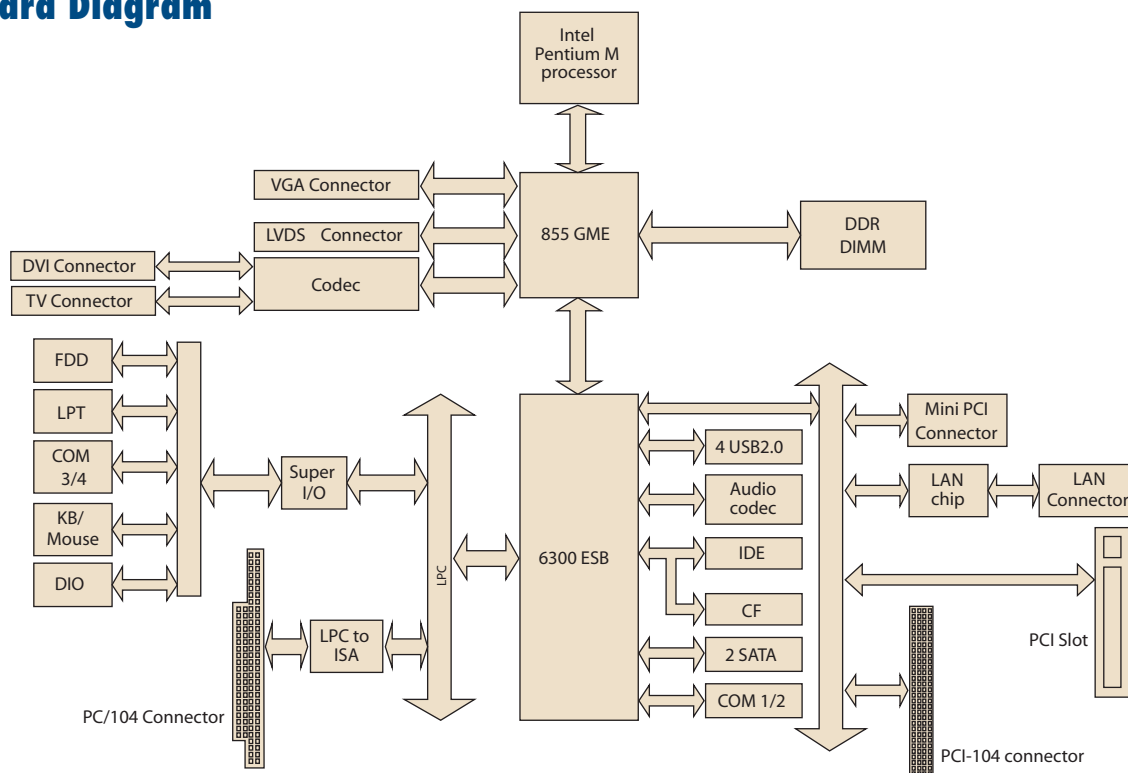
- Embedded Intel® Pentium® M 1.8 GHz/1.4 GHz/
- Embedded Intel® Celeron® M 600 MHz/1.0 GHz
- Supports ECC DDR Memory up to 1 GB, accept 128/256/512/1024 MB DDR200/266/333 DRAM
- EBX form factor standard and support for PC/104-Plus bus
- Supports up to 1000Base-T Ethernet
- Supports up to two channel 36-bit LVDS interface
- Supports Enhanced Intel® Speedstep Technology
- Supports PC/104+ (PCI + ISA (8bit)), Mini PCI and 1 x PCI Slot
- Two x SATA 150 (RAID 0/1), 4 x COM, 4 x USB 2.0, 8 bit GPIO



Specifications

Processor System	CPU	Embedded Intel Pentium M 1.4/1.8 GHz, Celeron M 600 MHz/ 1.0 GHz, Socket type
	Front Side Bus	400/533 MHz
	L2 Cache	512 KB ~ 2 MB
	Chipset	Intel 855GME + 6300ESB
	BIOS	Award 4 Mbit
Memory	Technology	DDR 200/266/333
	Max. Capacity	1 GB
	Socket	1 x 184-pin DIMM, ECC
SSD	CompactFlash	Card Type I, Type II (shared 2nd IDE Channel)
I/O Interface	LPT	1
	FDD	1
	RS-232	3
	RS-232/422/485	1
	K/B	1
	Mouse	1
	USB	4 x USB 2.0
	Audio	AC97, Speaker out, CD-input, Line-in, Line-out, Mic-in
	GPIO	8-bit general purpose input/output
SATA	SMBus	Supported
	Max. Data Transfer Rate	150 (RAID 0,1)
EIDE	Channel	2
	Mode	UDMA 100
Expansion Slot	Channel	1
	PCI	1
	miniPCI	1
	PC/104-Plus	1 (8-bit ISA)
Ethernet	Speed	10/100Mbps (PCM-9582F); 10/100/1000Mbps (optional) (PCM-9582FG)
	Controller	Intel 82551ER, optional 82551QM, 82541PI (GbE)
	Interface	RJ-45 by cable
Display	Controller	Intel 855GME
	VRAM	Optimized Shared Memory Architecture up to 32 MB system memory
	LVDS LCD	1 x 36-bit LVDS
	TV-Out	Supports both NTSC/PAL, S-video and Composite Video
	Dual Independent Display	CRT + LVDS, DVI/TV-out + LVDS, CRT + DVI
Environment	Operation Temperature	0 ~ 60° C (32 ~ 140° F)
	Operating Humidity	0% ~ 90% relative humidity, non-condensing
Power	Power Type	AT / ATX
	Power Supply Voltage	+5 V ±5%, +12 V ±5%
	Power Consumption: Typical	2.1 A @ 5 V, 0.03 A @ 12 V (Celeron M 600 with 256 MB DDR266)
		2.3 A @ 5 V, 0.13 A @ 12 V (Pentium M 1.1 G with 256 MB DDR266)
		2.54 A @ 5 V, 0.14 A @ 12 V (Pentium M 1.6G with 1.6 GHz with 256 MB)
		2.63 A @ 5 V, 0.04 A @ 12 V (Celeron M 600 with 256 MB DDR266)
	Power Consumption: Max, test in HCT	3.1 A @ 5 V, 0.15 A @ 12 V (Pentium M 1.1 G with 256 MB DDR266)
		4.8 A @ 5 V, 0.15 A @ 12 V (Pentium M 1.6G with 1.6 GHz with 256 MB)
Watchdog Timer	Power Management	APM, ACPI
	Battery	Lithium 3 V/196 mAH
	Output	System reset
Physical Characteristics	Interval	Programmable 1 ~ 255 sec
	Dimensions (L x W)	203 x 146 mm (8" x 5.75")
	Weight	0.85 kg (1.87 lb) (weight of total package)

Board Diagram



Ordering Information

Part No.	CPU	L2 Cache	CRT	LVDS	DVI	TV-out	10/100 LAN	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	Mini PCI	Thermal Solution	Operation Temp.
PCM-9582F-00A2E	Socket 479	-	Yes	36-bit	Yes	Yes	1	--	Yes	4	3	1	Yes	Yes	2	Yes	Yes	1	1	Active	0 ~ 60° C
PCM-9582FG-00A2E	Socket 479	-	Yes	36-bit	Yes	Yes	--	1	Yes	4	3	1	Yes	Yes	2	Yes	Yes	1	1	Active	0 ~ 60° C
PCM-9582F-S8A2E	Pentium M 1.8 GHz	2 MB	Yes	36-bit	Yes	Yes	1	--	Yes	4	3	1	Yes	Yes	2	Yes	Yes	1	1	Active	0 ~ 60° C
PCM-9582F-S4A2E	LV Pentium M 1.4 GHz	2 MB	Yes	36-bit	Yes	Yes	1	--	Yes	4	3	1	Yes	Yes	2	Yes	Yes	1	1	Passive	0 ~ 60° C
PCM-9582F-S0A2E	ULV Celeron M 1.0 GHz	512 KB	Yes	36-bit	Yes	Yes	1	--	Yes	4	3	1	Yes	Yes	2	Yes	Yes	1	1	Passive	0 ~ 60° C
PCM-9582F-M0A2E	ULV Celeron M 600MHz	512 KB	Yes	36-bit	Yes	Yes	1	--	Yes	4	3	1	Yes	Yes	2	Yes	Yes	1	1	Passive	0 ~ 60° C

PS: 48-bit LVDS possible but need confirm with AE for evaluation

Optional Accessories

Part No.	Description
PCM-10586-6200E	Wiring kit for PCM-9582
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-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
MIO-3130-00A1E	Mini PCI Interface to Dual LAN Communication Module
MIO-3131-00A1E	Mini PCI Interface to Single Giga LAN Communication Module

Packing List

Part No.	Description	Quantity
9689000002	PCM-9582 SBC	1
	Mini Jumper Pack	1
	Startup Manual	1
	Utility CD	1
1700001112	ATX Power Cable	1
	Heat sink 50 x 50 x 30 mm (PCM-9582F-S4A2E, PCM-9582F-S0A2E, PCM-9582F-M0A2E only)	1
	Cooler 50 x 50 x 35 mm (PCM-9582F-00A2E, PCM-9582FG-00A2E, PCM-9582F-S8A2E only)	1