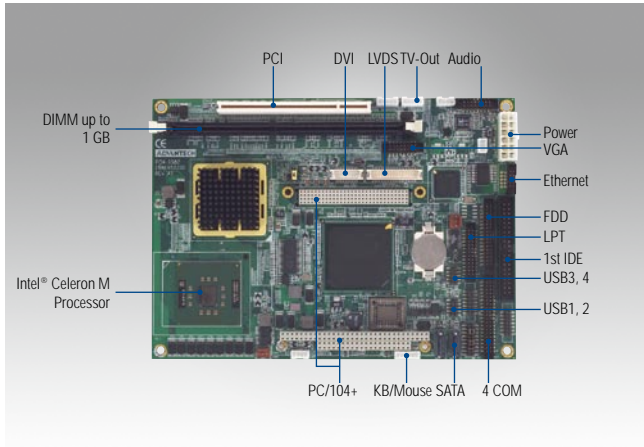


PCM-9587

Intel® Celeron® M Processor EBX SBC with LAN, LVDS, DVI, CRT, Audio, PC/104-Plus



Features

- Intel® Celeron® M Processor ultra low power
- Supports 36-bit LVDS/ DVI/ CRT
- Supports up to 1000 Mbps Ethernet
- PC/104-Plus (PCI + ISA (8bit)), Mini PCI and 1 x PCI Slot
- 2 x SATA 150 (RAID 0/1), 4 x COM, 4 x USB 2.0, 8-bit GPIO ports
- Supports embedded software APIs and utilities

Software APIs:

- Watchdog
- GPIO
- CPU Speed
- Backlight On/Off
- System Throttling

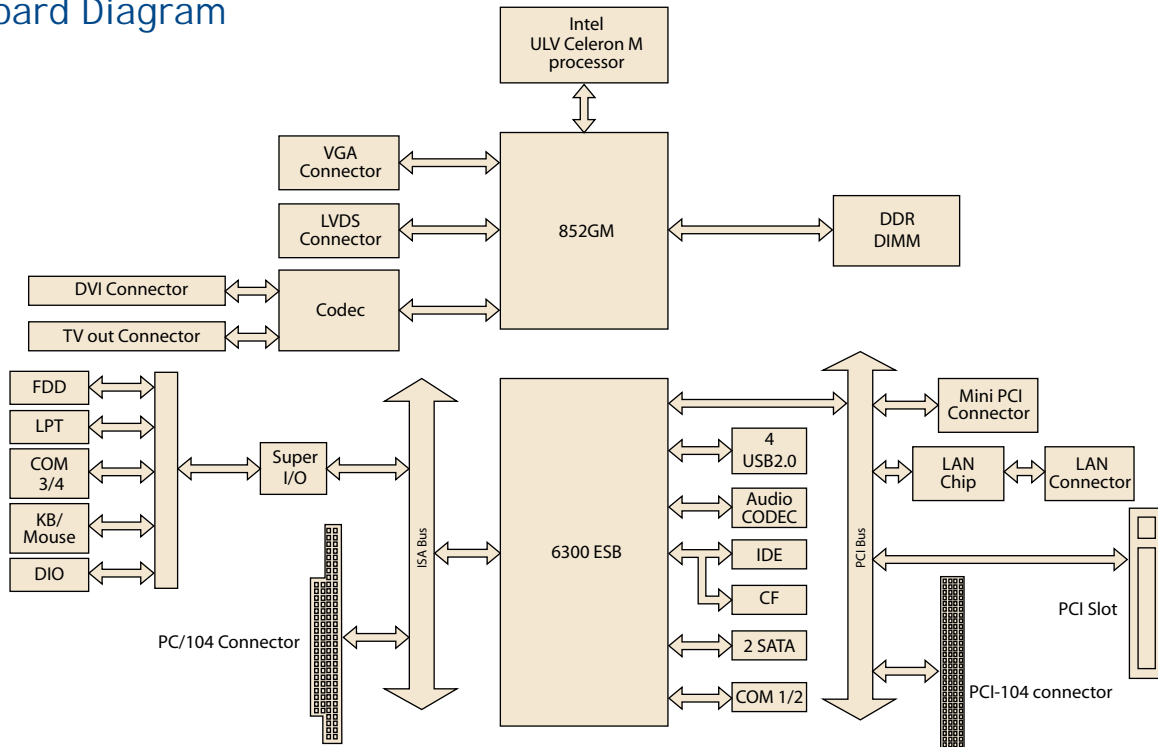
Utilities:

- BIOS Flash
- Monitoring

Specifications

Processor System	CPU	Intel Celeron M Processor ULV 600 MHz/ 1.0 GHz
	Front Side Bus	400 MHz
	L2 Cache	512 KB/ 0 KB
	Chipset	Intel 852GM + 6300ESB
	BIOS	Award 4 Mbit
Memory	Technology	DDR 200/266 MHz, ECC
	Max. Capacity	1 GB
	Socket	1 x 184-pin DIMM
Display	Chipset	Intel 852GM chip integrated. (Extreme Graphics 2)
	VRAM	Optimized Shared Memory Architecture up to 64 MB system memory
	Graphics Engine	Mobile Intel 852GM integrated 3D/2D engine
	LVDS	1 x 36-bit LVDS
	CRT	PS: 48-bit LVDS is possible but needs to be confirmed by AE for evaluation
	DVI	Up to 1600 x 1200 at 85-Hz and 2048 x 1536 at 75-Hz
	TV Out	1 (Supports DVI displays up to 165 MHz, UXGA resolution)
Ethernet	Dual Display	Supports both NTSC/PAL, S-video and Composite Video (optional)
	Speed	CRT + LVDS, DVI + LVDS, TV-out + LVDS, CRT + DVI
Audio	Controller	10/100 Mbps on LAN (10/100/1000 Mbps is optional)
	Chipset	Intel 82551ER, optional 82541PI (Giga LAN)
WatchDog Timer	Amplifier	Realtek ALC650 AC97
	Output	Speaker out, CD-input, Line-in, Line-out, Mic-in
Storage	Interval	LM4863MT (TSSOP20) (Supports 8W 1 W or 4W 2 W Speaker for Speaker-out)
	CompactFlash	System reset
	SATA	Programmable 1 - 255 level
	IDE	Card Type I, Type II (shared 2nd IDE Channel)
	Floppy	2 (Supports SATA RAID function (0,1))
Internal I/O	Serial	1 x EIDE (UDMA 100)
	Ethernet	1 x FDD (Optional)
	KB/Mouse	3 x RS-232, 1 x RS-232/422/485
	CRT	LAN x 1 (RJ-45 connector through the cable)
	USB	1
	IDE	1
	Parallel (LPT)	4 x USB 2.0
	FDD	2 x EIDE (UDMA 100)
	SMBUS	1
	GPIO	Share with LPT (Optional)
Expansion	PC/104-Plus slot	Supported
	MiniPCI socket	8-bit general purpose input/output
	PCI Slot	1 (8-bit ISA)
Power	Power Type	1
	Power Supply Voltage	AT / ATX AT is optional by request
	Power Consumption (Typical)	AT +5 V ±5%, +12 V ±5%, ATX +5 V ±5%, +12 V ±5%
	Power Consumption (Max, HCT)	2.62 A @ 5 V, 0.03 A @ 12 V (Celeron M 600 with 256 MB DDR266)
	Battery	2.63 A @ 5 V, 0.03 A @ 12 V (Celeron M 600 with 256 MB DDR266)
Environment	Power Management	APM, ACPI
	Operating	Lithium 3 V / 196 mAH
Physical Characteristics	Non-Operating	0 - 60° C (32 - 140° F)
	Dimensions (L x W)	95% @ 60° C Relative Humidity
	Weight	203 x 146 mm (8" x 5.75")
		0.85 kg (1.87 lb) (with Heatsink)

Board Diagram



Ordering Information

Part No.	CPU	L2 Cache	CRT	LVDS	DVI	TV out	10/100 LAN	Audio	USB 2.0	RS-232	RS/232/422/485	LPT/FDD/KB/MS	CF	SATA	PC/104+	PCI Slot	Mini PCI	Thermal Solution	Operating Temp.
PCM-9587F-M0A1E	Celeron M 600 MHz	512 KB	Yes	36-bit	Yes	Optional	1	Yes	4	3	1	Yes	Yes	2	Yes	1	1	Passive	0 - 60° C
PCM-9587F-S0A1E	Celeron M 1.0 GHz	0 KB	Yes	36-bit	Yes	Optional	1	Yes	4	3	1	Yes	Yes	2	Yes	1	1	Passive	0 - 60° C
PCM-9587Z-M0A1E	Celeron M 600 MHz	512 KB	Yes	36-bit	Yes	Optional	1	Yes	4	3	1	Yes	Yes	2	Yes	1	1	Passive	-20 - 80° C
PCM-9587Z-S0A1E	Celeron M 1.0 GHz	0 KB	Yes	36-bit	Yes	Optional	1	Yes	4	3	1	Yes	Yes	2	Yes	1	1	Passive	-20 - 80° C

PS: 48-bit LVDS possible but needs to be confirmed by AE for evaluation

Packing List

Part No.	Description	Quantity
	PCM-9587 SBC	1
9689000002	Mini Jumper Pack	1
2006958711	Startup Manual	1
2066958701	Utility CD	1
1700001112	ATX Power Cable	1
	Heat sink 50 x 50 x 30 mm	1

Optional Accessories

Part No.	Description
PCM-10586-6200E	Wiring kit for PCM-9582/87
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

Embedded OS

Embedded OS	Part No.	Description
Win XPE	2070000733	Image XPE SP2 (P-4_P-M Boards) V2.20 (ENG) (450 MB)
	2070001573	XPE FP2007 P4&PM-A (to 915) V3.0 ENG

