PCA-6008

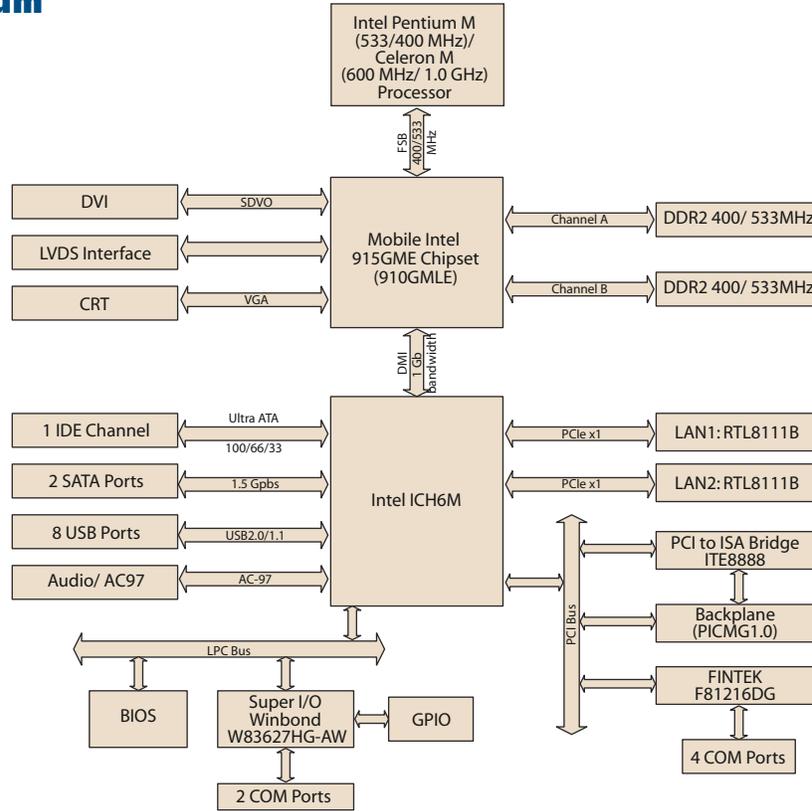## Socket 479 Pentium® M SBC with VGA/DVI/Dual GbE

Features

- Supports socket 479 Intel® Pentium® M/Celeron® M FSB 533 MHz processors
- Supports Dual Channel DDR2 533/400 SDRAM up to 2 GB
- Dual Gigabit Ethernet via two PCIe x1 ports
- 6 COM ports, 2 SATA ports, 8 USB ports
- Supports CF socket

RoHS COMPLIANT 2002/95/EC   c **ᴙ**us F180881   ◆DI-MC◆   CE FCC

Specifications

Processor System	CPU	Intel Pentium M	Celeron M	Celeron M	Celeron M
	Max. Speed	2.26 GHz	1.7 GHz	600 MHz onboard (PCA-6008VG-06A1E only)	1.0 GHz onboard (PCA-6008VG-10A1E only)
	L2 Cache	512 KB, 1 MB, 2 MB		512 KB	512 KB
	Chipset	Intel 915GME + ICH6M		910GMLE + ICH6M	910GMLE + ICH6M
	BIOS	Award 4 Mbit FWH			
	Front Side Bus	533/400 MHz		400 MHz	400 MHz
Bus	PCI	32-bit/33 MHz PCI			
	ISA	HISA (ISA High Driver)			
Memory	Technology	Dual-channel DDR2 533/400 MHz DIMMs			
	Max. Capacity	2 GB			
	Socket	240-pin DIMM x 2			
Graphics	Controller	Intel Graphics Media Accelerator 900			
	VRAM	Shared with system memory up to 128 MB			
	LVDS	Single channel 18-bit/Dual channel 36-bit LVDS			
	Video Output	15-pin CRT connector x1/(optional DVI connector)			
Ethernet	Interface	10/100/1000 Mbps			
	Controller	RTL8111B			
	Connector	RJ-45 with LED connector x 2			
EIDE	Mode	ATA 100/66/33			
	Channel	1 (supports up to 2 IDE devices, master is occupied when a CF card is installed)			
SATA (150MB/s)	Ports	2 ports			
I/O Interface	USB	8 ports by pin header (USB 2.0/1.1 compliant)		4 ports by pin header (USB 2.0/1.1 compliant)	
	Serial	5 (RS-232)/1 (RS-232/RS-422/RS-485) with pin header		1 (RS-232)/1 (RS-232/RS-422/RS-485) with pin header	
	Parallel	1 (EPP/ECP/SPP)			
	FDD	1			
	PS/2	1 (for mouse and keyboard, Y-cable included)			
Watchdog Timer	Output	Interrupt, System reset			
	Interval	Programmable 1-255 sec/min			
Miscellaneous	Audio Output	AC97 audio interface (requires an audio extension module P/N: PCA-AUDIO-00A1E)			

Power Requirement

Configuration 1: Pentium M processor 780 (2.26 GHz/27 W) + DDR2 2 GB

+12 V	+5 V	+3.3 V	+5 VSB	-12 V	-5
3.09 A	4.26 A	0 A	0.42 A	0 A	0 A

Configuration 2: Celeron M processor 600 MHz/7 W + DDR2 2 GB

+12 V	+5V	+3.3 V	+5 VSB	-12 V	-5 V
0.56 A	3.66 A	0 A	0.07 A	0 A	0 A

Environment

Temperature	Operating	Non-Operating (Storage)
	0 ~ 60° C (32 ~ 140° F) (operation humidity: 40° C @ 85% RH Non-Condensing)	-40° C ~ 85° C and 60° C @ 95% RH Non-Condensing

Physical

Dimensions	338 mm (L) x 122 mm (W) (13.3" x 4.8")

Board Diagram

Order Information

Part Number	CPU	North Bridge	LVDS	DVI	VGA	Gigabit LAN	USB	COM	CF
PCA-6008G2-00A1E	Socket	915GME	Yes	Yes	Yes	Dual	8	6	Yes
PCA-6008VG-06A1E	Celeron M 600M/512	910GMLE	-	-	Yes	Single	4	2	Yes
PCA-6008VG-10A1E	Celeron M 1.0G/512	910GMLE	-	-	Yes	Single	4	2	Yes

Bracket View

PCA-6008G2-00A1E

PCA-6008VG-06A1E
PCA-6008VG-10A1E

Accessories

Part number	Description
1700008822	DVI cable
PCA-AUDIO-00A1E	Audio extension module
1701090401	Single COM Cable Kit

Packing List

Part number	Description	Quantity
1700340640	FDD cable	x 1
1701400452	IDE HDD cable	x 1
1700003194	Serial ATA HDD data cable	x 2
1703150102	Serial ATA HDD power cable	x 2
170304015K	ATX 12V power converter cable	x 1
1701260305	Printer + COM cable	x 1
1700060202	Y cable for PS/2 mouse & keyboard	x 1
1700008461	USB cable with 4 ports	x 1
1701092300	Dual COM port cable kit	x 1
1750000246	CPU cooler for Socket 479 (G2 version only)	x 1
9689000068	Jumper pack	x 1
-	Startup manual	x 1
-	Utility CD	x 1