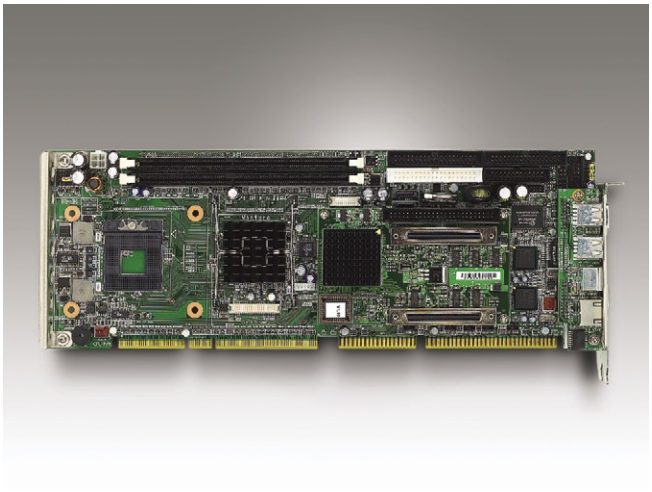
PCA-6189

Socket 479 Pentium® M/Celeron® M Processor Card with 64-bit PCI-X/VGA/ Dual GbE LAN



Features

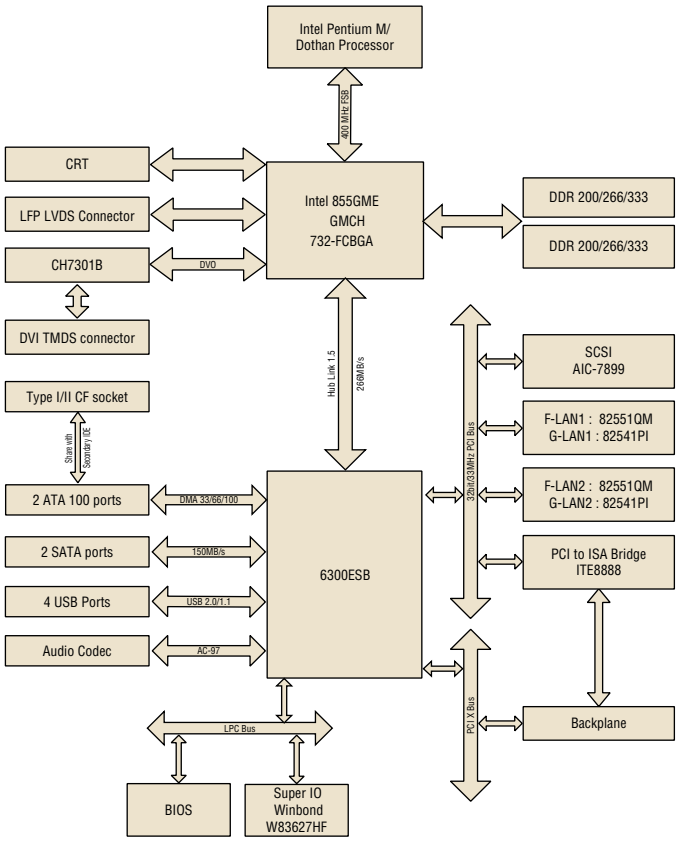
- Intel® 855GME chipset 400 MHz FSB
- Supports two DIMMs DDR 200/266/333 SDRAM
- Supports up to two devices with software Serial ATA RAID 0,1
- Onboard Adaptec AIC-7899 dual channel Ultra 160 SCSI up to 160 MB/s
- Onboard integrated VGA controller, supports dual display
- LVDS and DVI panel support
- 64-bit/66 MHz PCI-X
- Supports 10/100/1000Base-T Ethernet
- Optional fanless solution with onboard ultra low voltage Celeron® M processor at 1.0 GHz

RoHS COMPLIANT 2002/95/EC

Specifications

Processor System	CPU	Intel Pentium® M		Intel Celeron M	
	Max. Speed	2.1 GHz and above (400 FSB)		1.5 GHz and above (400 FSB)	
	L2 Cache	1 MB/2 MB		512 KB/1 MB	
	Chipset	Intel 855GME + 6300ESB			
	BIOS	Award 4 Mbit FWH			
	Front Side Bus	400 MHz			
Bus	PCI	64-bit/33/66 MHz PCI, 66 MHz PCI-X			
	ISA	HISA (ISA high drive), no DMA support			
Memory	Technology	One channel DDR 200/266/333 MHz with ECC support			
	Max. Capacity	2 GB			
	Socket	184-pin DIMM x 2			
Graphic	Controller	Chipset integrated VGA controller			
	VRAM	Dynamically shared system memory, 8 ~ 64 MB			
	Video Output	1 VGA port, 2048 x 1536, up to 75 Hz 1 LVDS connector, dual channel from 25 MHz to 112 MHz 1 DVI connector, 2048 x 1536 at 75 Hz			
Ethernet	Interface	10/100Base-T; 10/100/1000Base-T (optional)			
	Controller	LAN 1: Intel 82551QM (FE); Intel 82541PI (GbE) LAN 2: Intel 82541PI (GbE)			
	Connector	RJ-45 x 2			
SATA	Max. Data Transfer Rate	150 MB/s			
	Channel	2			
EIDE	Mode	ATA 100/66/33			
	Channel	2 (Max. 4 devices)			
I/O Interface	USB	Max. 4 (USB 2.0 compliant)			
	Serial	2 (RS-232)			
	Parallel	1 (SPP/EPP/ECP)			
	FDD	1			
	PS/2	1			
Watchdog Timer	Output	Interrupt, system reset			
	Interval	Programmable, 1 ~ 255 sec.			
Miscellaneous	Audio Output	AC-97 audio interface (requires an audio extension module P/N: PCA-AUDIO-00A1)			
	Solid State Disk	Compact Flash socket (Type I / II), shared with secondary IDE			
Power Requirement	Typical	Intel Pentium M 1.8 GHz with 400 MHz FSB, 512 MB DDR 333 SDRAM			
		+5 V	-5 V	+12 V	-12 V
		3.29A	0.01 A	1.45A	0.01 A
Environment		Operating		Non-Operating	
	Temperature	0 ~ 60 °C (32 ~ 140 °F), depends on CPU's speed		-20 ~ 70 °C (-40 ~ 158 °F)	
Physical Characteristics	Dimensions (W X D)	338 x 122 mm (13.3" x 4.8")			

Block Diagram



Ordering Information

Part Number	Processor	Fast Ethernet LAN	Gigabit LAN	SCSI
PCA-6189VE-00A2E	-	Single	-	-
PCA-6189VG-00A2E	-	-	Single	-
PCA-6189G2-00A2E	-	-	Dual	-

Bracket View

PCA-6189VE-00A2E
PCA-6189VG-00A2E

PCA-6189G2-00A2E

Packing List

Part Number	Description	Quantity
1700340640	FDD cable	X 1
1701400452	IDE HDD cable	X 2
1700071000	Serial ATA HDD data cable	X 2
1703150102	Serial ATA HDD power cable	X 2
170304015K	ATX 12 V power converter cable	X 1
1701260305	Printer + COM cable	X 1
1700060202	Y cable for PS/2 mouse & keyboard	X 1
1700000821	DVI cable	X 1
1700002204	USB cable with 2 ports	
1960001631	Low profile CPU cooler	X 1
9689000068	Jumper pack	X 1
-	Startup manual	X 1
-	Utility CD	X 1

Accessories

Part Number	Description
PCA-AUDIO-00A1E	Audio extension module