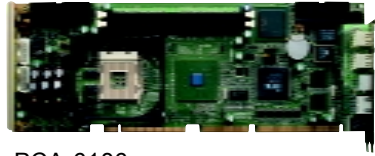
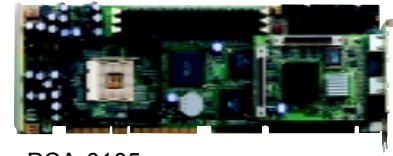




# Full-sized CPU Cards



PCA-6186

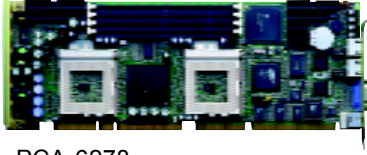


PCA-6185

Model Name		Pentium® 4/Celeron® Processor Cards				Dual Pentium® III Processor Cards			
Specifications		PCA-6186	PCA-6184	PCA-6185	PCA-6005-B	PCA-6278	PCA-6277	PCA-6276	
CPU		Intel® Pentium® 4/ Celeron® Socket 478	Intel® Pentium® 4/ Celeron® Socket 478	Intel® Pentium® 4/ Celeron® Socket 478	Intel® Pentium® 4/ Celeron® Socket 478	Dual Intel® Pentium® III (Tualatin) Socket 370	Dual Intel® Pentium® III Socket 370	Dual Intel® Pentium® III Socket 370	
Max. CPU Speed		3.06/2.0 GHz	2.4/2.0 GHz	3.06/2.0 GHz	2.8/2.0 GHz	1.26 GHz	1 GHz	850 MHz	
L2 Cache		512/256/128 KB	512/256/128 KB	512/256/128 KB	512/256/128 KB	512/256 KB	256 KB	256 KB	
Chipset		Intel® 845GV	Intel® 845	ServerWorks® GC-SL	SiS651	ServerWorks® SeverSet® 30LE	VIA Apollo Pro 133A	Intel® 440BX	
PCI Bus		32-bit/33 MHz	32-bit/33 MHz	64-bit PCI-X	32-bit/33 MHz	64-bit/66 MHz	32-bit/33 MHz	32-bit/33 MHz	
ISA Bus		HISA (ISA high drive)	HISA (ISA high drive)	Not supported	Not supported	HISA (ISA high drive)	HISA (ISA high drive)	HISA (ISA high drive)	
Graphic Controller/VRAM		Integrated/ 64 MB share	ATI RAGE Pro 128 4XL(AGP 4X)/32 MB	ATI RAGE XL(PCI)/ 8 MB	Integrated/ 64 MB share	ATI RAGE XL (PCI)/ 8 MB	ATI RAGE Pro128 4XL (AGP 4X)/ 32 MB	ATI RAGE XL (AGP 2X)/ 4 or 8 MB	
Ethernet Controller		Intel 82562/82551 (GbE: Intel 82540)	Intel 82559	Broadcom BCM5703 (BCM5704 for Dual)	RTL8139C	Intel 82559	RTL8139C	Intel 82559	
SCSI		No	No	Dual channel Ultra 320	Dual channel Ultra 160	No	Ultra 160	No	
Memory	Technology	DDR200/266 SDRAM	DDR200/266 SDRAM with ECC support	DDR200/266 registered SDRAM with ECC support	DDR200/266/333 SDRAM	PC-133/100 registered SDRAM with ECC support	PC-133/100 SDRAM with ECC support	PC-100 SDRAM with ECC support	
	Max. Capacity	2 GB	2 GB	4 GB	2 GB	4 GB	2 GB	1 GB	
I/O Interface	VGA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Panel Display	No	No	No	No	No	No	No	
	USB	6 (USB 2.0)	4	4	4	4	4	2	
	Serial	2	2	2	2	2	2	2	
	Parallel	Bidirectional SPP/EPP/ECP	Bidirectional SPP/EPP/ECP	Bidirectional SPP/EPP/ECP	Bidirectional SPP/EPP/ECP	Bidirectional SPP/EPP/ECP	Bidirectional SPP/EPP/ECP	Bidirectional SPP/EPP/ECP	Bidirectional SPP/EPP/ECP
	FDD	1	1	1	1	1	1	1	
	LAN	Dual 10/100Base-T or Dual 10/100/1000 Base-T	Dual 10/100 Base-T	Dual 10/100/1000 Base-T	Dual 10/100 Base-T	Dual 10/100Base-T	Dual 10/100 Base-T	10/100Base-T	
	OBS (hardware monitor)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Audio (requires PCA-AUDIO-00A1)		Yes	No	No	Yes	No	No	No	
SNMP-1000 Remote Management Interface		Yes	Yes	Yes	Yes	No	No	No	
Watchdog Timer		1 ~ 255 sec. (255 levels)	1 ~ 255 sec. (255 levels)	1 ~ 63 sec. (63 levels)	1 ~ 255 sec. (255 levels)	1 ~ 63 sec. (63 levels)	1 ~ 63 sec. (63 levels)	1 ~ 63 sec. (63 levels)	
Solid State Disk		IDE Flash Disk	IDE Flash Disk	IDE Flash Disk	IDE Flash Disk	IDE Flash Disk	IDE Flash Disk	IDE Flash Disk	
		9-2	9-3	9-4	9-5	9-6	9-7	9-8	



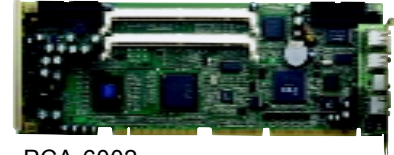
Reference Page



PCA-6278



PCA-6183



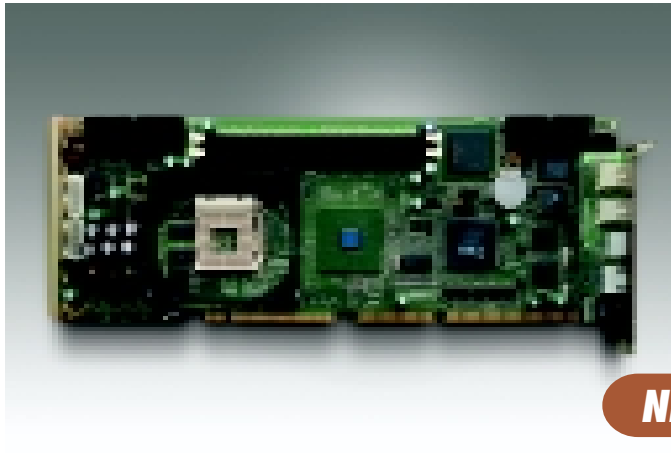
PCA-6002

Pentium® III/Celeron® Processor Cards					Low-power Processor Cards			
PCA-6183	PCA-6181	PCA-6180-B	PCA-6003	PCA-6179	PCA-6178-B	PCA-6002	PCA-6004	PCA-6359
Intel® Pentium® III/ Celeron® (Tualatin) Socket 370	Intel® Pentium® III/ Celeron® (Tualatin) Socket 370	Intel® Pentium® III/ Celeron® (Tualatin) Socket 370	Intel® Pentium® III/ Celeron® (Tualatin) Socket 370	Intel® Pentium® III Socket 370	Intel® Pentium® III/ Celeron® Socket 370	Intel® Pentium® III/ Celeron® (low power)	VIA C3 EBGA (low power)	Intel® Pentium® MMX (low-power)
1.4/1.2 GHz	1.4/1.2 GHz	1.4/1.2 GHz	1.4/1.2 GHz	1 GHz	850/800 MHz	500/400 MHz	800 MHz	266 MHz
512/256/128 KB	512/256/128 KB	512/256/128 KB	512/256/128 KB	256 KB	256/128 KB	256/128 KB	L1 128 KB L2 64 KB	512 KB
ServerWorks® SeverSet® 30LC-T	VIA Apollo Pro133T	Intel® 815E	VIA Apollo PLE133T	VIA Apollo Pro133A	Intel® 440BX	Intel® 815E	VIA Apollo PLE133T	Intel® 430TX
64-bit/66 MHz	32-bit/33 MHz	32-bit/33 MHz	32-bit/33 MHz	32-bit/33 MHz	32-bit/33 MHz	32-bit/33 MHz	32-bit/33 MHz	32-bit/33 MHz
HISA (ISA high drive)	HISA (ISA high drive)	HISA (ISA high drive)	HISA (ISA high drive)	HISA (ISA high drive)	HISA (ISA high drive)	HISA (ISA high drive)	HISA (ISA high drive)	HISA (ISA high drive)
ATI RAGE XL (PCI)/ 8 MB	ATI RAGE Pro 128 4XL (AGP 4X)/32 MB	Integrated/ 11 MB share	Integrated/ 8 MB share	ATI RAGE Pro 128 4XL (AGP 4X)/8 or 32 MB	ATI RAGE XL (AGP 2X)/ 4 or 8 MB	Integrated/ 11 MB share	Integrated/ 8 MB share	69000
Intel 82559 (Broadcom 5701 for GbE)	RTL8139C	Intel 82562/82559	RTL8139C	RTL8139C	Intel 82559	Intel 82562/82559	RTL8139C	Intel 82559ER
Dual channel Ultra 160	Dual channel Ultra 160	Ultra 160	No	Ultra2 Wide	Ultra2 Wide	No	No	Ultra Wide
PC-133/100 registered SDRAM with ECC support	PC-133/100 SDRAM with ECC support	PC-133/100 SDRAM	PC-133/100 SDRAM with ECC support	PC-133/100 SDRAM with ECC support	PC-100 SDRAM with ECC support	PC-133/100 SDRAM	PC-133/100 SDRAM with ECC support	PC-66 SDRAM
4 GB	1.5 GB	512 MB	1 GB	1.5 GB	768 MB	512 MB	1 GB	256 MB
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
No	No	No	Yes	No	No	No	Yes	Yes
4	4	4	2	2	2	4	2	2
2	2	2	2	2	2	2	2	2
Bidirectional SPP/EPP/ECP	Bidirectional SPP/EPP/ECP	Bidirectional SPP/EPP/ECP	Bidirectional SPP/EPP	Bidirectional SPP/EPP/ECP	Bidirectional SPP/EPP/ECP	Bidirectional SPP/EPP/ECP	Bidirectional SPP/EPP	Bidirectional SPP/EPP/ECP
1	1	1	1	1	1	1	1	1
Dual 10/100Base-T or 10/100/1000Base-T	Dual 10/100Base-T	Dual 10/100Base-T	10/100Base-T	10/100Base-T	10/100Base-T	Dual 10/100Base-T	10/100Base-T	10/100Base-T
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
No	No	No	Yes	No	No	No	Yes	No
Yes	Yes	No	Yes	No	No	Yes	Yes	No
1 ~ 63 sec. (63 levels)	1 ~ 63 sec. (63 levels)	1 ~ 255 sec. (255 levels)	1 ~ 63 sec. (63 levels)	1 ~ 63 sec. (63 levels)	1 ~ 63 sec. (63 levels)	1 ~ 255 sec. (255 levels)	1 ~ 63 sec. (63 levels)	1 ~ 63 sec. (63 levels)
IDE Flash Disk	IDE Flash Disk	IDE Flash Disk	IDE Flash Disk	DiskOnChip 2000	DickOnChip 2000	IDE Flash Disk	IDE Flash Disk	DickOnChip 2000
9-9	9-10	9-11	9-12	9-13	9-14	9-15	9-16	9-17



# PCA-6186

## Socket 478 Pentium® 4/Celeron® Processor Card with DDR/VGA/Dual Gigabit LAN/HISA (400/533 MHz FSB)



**NEW**

### Features

- Socket 478 Pentium 4/Celeron up to 3.06/2.0 GHz
- Supports Intel® Hyper-Threading® Technology
- Intel 845GV chipset 400/533 MHz FSB
- Onboard integrated VGA controller, shared memory architecture
- Supports dual 10/100Base-T Ethernet or dual 10/100/1000Base-T Ethernet
- 6 USB 2.0 ports
- CMOS automatic backup and restore to prevent accidental data loss of BIOS setup
- HISA (ISA high drive) support

### Specifications

Processor System	CPU	Intel Pentium 4	Intel Celeron
	Max. Speed	3.06 GHz	2.0 GHz
	L2 Cache	512/256 KB	128 KB
	Chipset	Intel 845GV	
	BIOS	Award 4 Mb FWH	
Bus	Front Side Bus	400/533 MHz	
	PCI	32-bit/33 MHz	
	ISA	HISA (ISA high drive)	
Memory	Technology	DDR 200/266 SDRAM	
	Max. Capacity	2 GB	
	Socket	184-pin DIMM x2	
Graphic	Controller	Chipset integrated VGA controller	
	VRAM	Dynamically shared system memory 8~64 MB	
Ethernet	Interface	10/100Base-T; 10/100/1000Base-T (optional)	
	Controller	LAN 1: Intel 82562(FE); Intel 82540(Gigabit), LAN 2: Intel 82551(FE); Intel 82540(Gigabit)	
	Connector	RJ-45 x2	
EIDE	Mode	ATA 100/66/33	
	Channel	2 (Max. 4 devices)	
I/O Interface	USB	Max. 6 (USB 2.0 compliant), 4 ports onboard for E2, G2 versions	
	Serial	2 (RS-232)	
	Parallel	1 (SPP/EPP/ECP)	
	FDD	1	
	PS/2	1 (for LV, VE, VG, G2 versions), 2 (for E2 version)	
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)	
	Typical	Pentium 4 2 GHz, 256 MB DDR SDRAM	
Power Requirement		+5 V	+12 V
		8.7 A	310 mA
Environment		Operating	Non-Operating
	Temperature	0 ~ 60° C (32 ~ 140° F)	-20 ~ 70° C (-4 ~ 158° F)
Physical	Dimensions	338 x 122 mm (13.3" x 4.8")	

### Ordering Information

Part Number	HISA	VGA	Fast Ethernet LAN	Gigabit LAN
PCA-6186LV-00A1	V	V	--	--
PCA-6186VE-00A1	V	V	Single	--
PCA-6186E2-00A1	V	V	Dual	--
PCA-6186VG-00A1	V	V	--	Single
PCA-6186G2-00A1	V	V	--	Dual

### Packing List

FDD cable	X 1	1700340640
IDE HDD cable	X 2	1701400452
Printer + COM cable	X 1	1701260305
Y cable for PS/2 mouse & keyboard (LV, VE, VG, G2 versions only)	X 1	1700060202
Jumper pack	X 1	9689000068
Single slot bracket (E2, G2 versions only)	X 1	1962159010
Startup manual	X 1	--
Utility CD	X 1	--

### Accessory Options

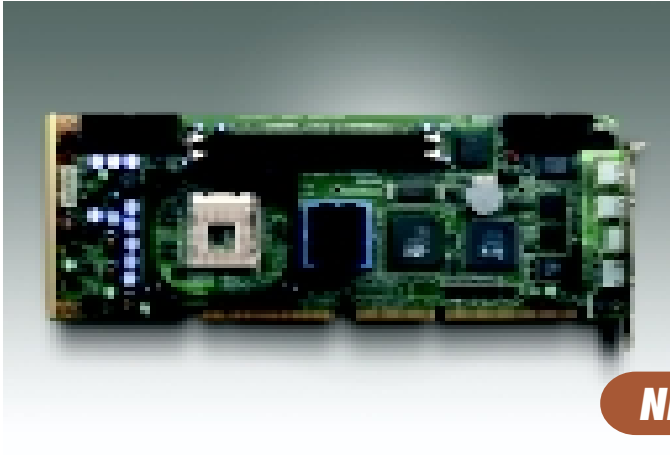
USB cable with 2 ports	1700100170
USB extension module with 4 ports (only for LV, V, VE versions)	PCA-USB4-00A1
CPU cooler for Pentium 4 up to 2.53 GHz, for 1U chassis	1759252100
Audio extension module	PCA-AUDIO-00A1



CE FCC

# PCA-6184

## Socket 478 Pentium® 4/Celeron® Processor Card with DDR/VGA/Dual LAN/HISA (400 MHz FSB)



### Features

- Socket 478 Pentium 4/Celeron up to 2.4 GHz
- Intel® 845 chipset 400 MHz FSB
- Onboard high performance AGP 4X VGA with 32 MB SDRAM
- Supports dual 10/100Base-T Ethernet, Intel 82559 controller
- CMOS automatic backup and restore to prevent accidental data loss of BIOS setup
- HISA (ISA high drive) support

**NEW**

### Specifications

Processor System	CPU	Intel Pentium 4	Intel Celeron
	Max. Speed	2.4 GHz	2.0 GHz
	L2 Cache	512/256 KB	128 KB
	Chipset	Intel 845	
	BIOS	Award 4 Mb FWH	
Bus	Front Side Bus	400 MHz	
	PCI	32-bit/33 MHz	
	ISA	HISA (ISA high drive)	
Memory	Technology	DDR 200/266 SDRAM with ECC support	
	Max. Capacity	2 GB	
	Socket	184-pin DIMM x2	
Graphic	Controller	ATI RAGE Pro 128 4XL (AGP 4X)	
	VRAM	32 MB SDRAM	
Ethernet	Interface	10/100Base-T	
	Controller	Intel 82559 x2	
	Connector	RJ-45 x2	
EIDE	Mode	ATA 100/66/33	
	Channel	2 (Max. 4 devices)	
I/O Interface	USB	Max. 4 (USB 1.1 compliant), 4 ports onboard for E2 version	
	Serial	2 (RS-232)	
	Parallel	1 (SPP/EPP/ECP)	
	FDD	1	
	PS/2	1 (for L, V, VE versions), 2 (for E2 version)	
Watchdog Timer	Output	Interrupt, system reset	
	Interval	Programmable, 1 ~ 255 sec.	
Power Requirement	Typical	Pentium 4 1.8 GHz, 256 MB DDR SDRAM	
		+5 V	+12 V
		7.4 A	320 mA
Environment	Temperature	Operating	Non-Operating
		0 ~ 60 °C (32 ~ 140 °F)	-20 ~ 70 °C (-4 ~ 158 °F)
Physical	Dimensions	338 x 122 mm (13.3" x 4.8")	

### Ordering Information

Part Number	HISA	VGA (AGP)	SCSI	LAN
PCA-6184V-00A1	v	v	--	--
PCA-6184VE-00A1	v	v	--	Single
PCA-6184E2-00A1	v	v	--	Dual
PCA-6184L-00A1	v	--	--	--

### Packing List

FDD cable	X 1	1700340640
IDE HDD cable	X 2	1701400452
Printer + COM cable	X 1	1701260305
Y cable for PS/2 mouse & keyboard (only for L, V, VE versions)	X 1	1700060202
Jumper pack	X 1	9689000068
Single slot bracket	X 1	--
Startup manual	X 1	--
Utility CD	X 1	--

### Accessory Options

USB cable with 2 port	1700100170
USB extension module with 4 ports (only for V, VE versions)	PCA-USB4-00A1
CPU cooler for Pentium 4 up to 2.53 GHz, for 1U chassis	1759252100



CE FCC

For More Information



[www.advantech.com/nc](http://www.advantech.com/nc)

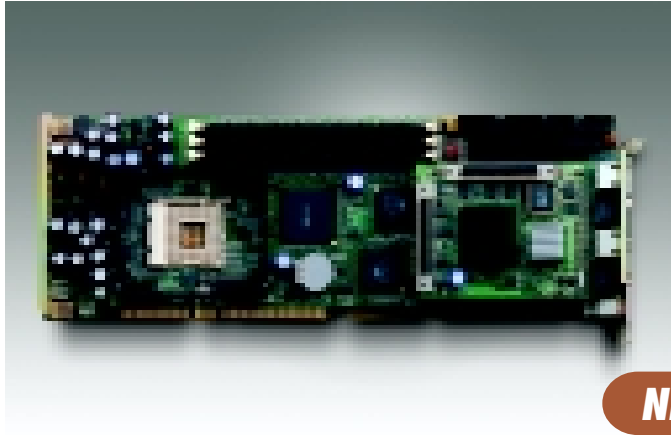
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# PCA-6185

## Socket 478 Pentium® 4/Celeron® Processor Card with 64-bit PCI-X/DDR/VGA/ Dual Gigabit LAN/SCSI (400/533 MHz FSB)



**NEW**

### Features

- Socket 478 Pentium 4/Celeron up to 3.06 GHz and above
- Support Intel® Hyper-Threading® Technology
- ServerWorks GC-SL chipset 400/533MHz FSB
- 64-bit, 66 MHz PCI-X
- Onboard VGA controller with 8MB SDRAM
- Onboard single/dual 10/100/1000Base-T Ethernet, BCM5703/5704 controller (64-bit PCI-X)
- Supports dual channel Ultra 320 SCSI (64-bit PCI-X)
- CMOS automatic backup and restore to prevent accidental data loss of BIOS setup
- No ISA support

### Specifications

Processor System	CPU	Intel Pentium 4	Intel Celeron		
	Max. Speed	3.06 GHz	2.0 GHz		
	L2 Cache	512/256 KB	128 KB		
	Chipset	ServerWorks GC-SL			
	BIOS	Award 4 Mb Flash			
Bus	Front Side Bus	400/533 MHz			
	PCI	64-bit, 33/66 MHz PCI, 66 MHz PCI-X			
	ISA	Not supported			
Memory	Technology	DDR 200/266 registered SDRAM with ECC support			
	Max. Capacity	4 GB			
	Socket	184-pin DIMM x3			
Graphic	Controller	ATI Rage XL (PCI)			
	VRAM	8 MB SDRAM			
Ethernet	Interface	Single or dual 10/100/1000Base-T (PCI-X)			
	Controller	Broadcom BCM5703 (single port) Broadcom BCM5704 (dual port)			
	Connector	RJ-45 x2			
SCSI	Interface	Ultra 320 (PCI-X)			
	Controller	Adaptec AIC-7902			
	Max. Data Transfer Rate	320 MB/sec.			
EIDE	Channel	2			
	Mode	ATA 100/66/33			
	Channel	2 (Max. 4 devices)			
I/O Interface	USB	Max. 4 (USB 1.1 compliant), 2 ports onboard			
	Serial	2 (RS-232)			
	Parallel	1 (SPP/EPP/ECP)			
	FDD	1			
	PS/2	1			
Watchdog Timer	Output	Interrupt, system reset			
	Interval	Programmable, 1 ~ 63 sec.			
Power Requirement	Typical	Pentium 4 2.4 GHz, 1 GB DDR SDRAM			
		+5 V	-5 V	+12 V	-12 V
		2.36 A	11 mA	5.42 A	212 mA
Environment	Operating	Non-Operating			
	Temperature	0 ~ 60 °C (32 ~ 140 °F), depends on CPU's speed			
Physical	Dimensions	338 x 122 mm (13.3" x 4.8")			

### Ordering Information

Part Number	VGA	Gigabit LAN	SCSI
PCA-6185V-00A1	V	--	--
PCA-6185VG-00A1	V	Single	--
PCA-6185G2-00A1	V	Dual	--
PCA-6185F-00A1	V	Dual	V

### Packing List

FDD cable	X 1	1700340640
IDE HDD cable	X 2	1701400452
Printer + COM cable	X 1	1701260305
Jumper pack	X 1	9689000068
Startup manual	X 1	--
Utility CD	X 1	--
Y cable for PS/2 mouse & keyboard	X 1	1700060202

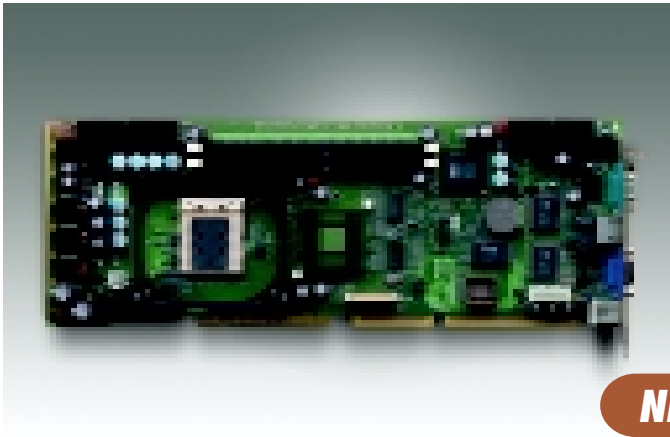
### Accessory Options

USB cable with 2 ports	1700100170
SCSI cable (125 cm) with terminator	1701060000
CPU cooler for Pentium 4 up to 2.53 GHz, for 1U chassis	1759252100

CE FCC

# PCA-6005-B

## Socket 478 Pentium® 4/Celeron® Processor Card with DDR/VGA/Dual LAN/SCSI (400/533 MHz FSB)



**NEW**

### Features

- Socket 478 up to 2.8 GHz
- SiS651 chipset 400/533 MHz FSB
- Integrated high performance VGA, shared system DRAM up to 64 MB
- Supports dual 10/100Base-T Ethernet, Realtek 8139C controller
- Onboard Adaptec AIC-7899 Ultra 160 SCSI up to 160 MB/sec.
- CMOS automatic backup and restore to prevent accidental data loss of BIOS setup
- No ISA support

### Specifications

Processor System	CPU	Intel® Pentium 4	Intel Celeron
	Max. Speed	2.8 GHz	2.0 GHz
	L2 Cache	512/256 KB	128 KB
	Chipset	SiS651	
	BIOS	Award 2 Mb Flash	
Bus	Front Side Bus	400/533 MHz	
	PCI	32-bit/33 MHz	
	ISA	Not supported	
Memory	Technology	DDR 200/266/333 SDRAM	
	Max. Capacity	2 GB	
	Socket	184-pin DIMM x 2	
Graphic	Controller	Chipset integrated VGA controller	
	VRAM	Share memory up to 64 MB	
Ethernet	Interface	10/100Base-T	
	Controller	RTL8139C x2	
	Connector	RJ-45 x2	
SCSI	Interface	Ultra 160	
	Controller	Adaptec AIC-7899	
	Max. Data Transfer Rate	160 MB/sec.	
	Channel	2	
EIDE	Mode	ATA 100/66/33	
	Channel	2 (Max. 4 devices)	
I/O Interface	USB	Max. 4 (USB 1.1 compliant), 4 ports onboard for E2, F versions	
	Serial	2 (RS-232)	
	Parallel	1 (SPP/EPP/ECP)	
	FDD	1	
	PS/2	1 (for V, VE versions), 2 (for E2, F versions)	
Watchdog Timer	Output	Interrupt, system reset	
	Interval	Programmable, 1 ~ 255 sec.	
Miscellaneous	Audio Output	AC-97 audio interface (requires and audio extension module P/N: PCA-AUDIO-00A1)	
Power Requirement	Typical	Pentium 4 1.6 GHz, 512 MB DDR SDRAM	
		+5 V	+12 V
		2.3 A	3.3 A
Environment	Operating	0 ~ 60 °C (32 ~ 140 °F), depends on CPU's speed	Non-Operating
	Temperature		-20 ~ 70 °C (-4 ~ 158 °F)
Physical	Dimensions	338 x 122 mm (13.3" x 4.8")	

### Ordering Information

Part Number	VGA	SCSI	LAN
PCA-6005V-00B1	v	--	--
PCA-6005VE-00B1	v	--	Single
PCA-6005E2-00B1	v	--	Dual
PCA-6005F-00B1	v	v	Dual

### Packing List

FDD cable	X 1	1700340640
IDE HDD cable	X 2	1701400452
Printer + COM cable	X 1	1701260305
Y cable for PS/2 mouse & keyboard (only for V, VE versions)	X 1	1700060202
Jumper pack	X 1	9689000068
Startup manual	X 1	--
Utility CD	X 1	--

### Accessory Options

USB cable with 2 ports	1700100170
USB extension module with 4 ports (only for V, VE versions)	PCA-USB4-00A1
SCSI cable (125 cm) with terminator	1701060000
CPU cooler for Pentium 4 up to 2.53 GHz, for 1U chassis	1959252100
Audio extension module	PCA-AUDIO-00A1

CE FCC

For More Information



[www.advantech.com/nc](http://www.advantech.com/nc)

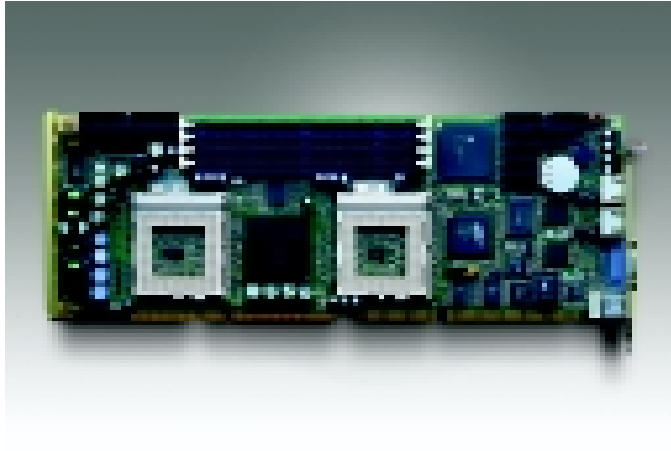
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9-5



# PCA-6278

## Dual Socket 370 Pentium® III Processor (Tualatin) Card with 64-bit PCI/VGA/Dual LAN/HISA (133 MHz FSB)



### Features

- Dual Socket 370 Pentium III up to 1.26 GHz
- Up to 4 GB registered SDRAM
- Onboard high performance VGA with 8 MB SGRAM
- Supports dual 10/100Base-T Ethernet, Intel 82559 controller
- 64-bit/66 MHz PCI bus interface
- CMOS automatic backup and restore to prevent accidental data loss of BIOS setup

### Specifications

Processor System	CPU	Intel® Pentium III x2		
	Max. Speed	1.26 GHz		
	L2 Cache	512/256 KB		
	Chipset	ServerWorks ServerSet 30LE		
	BIOS	Award 2 Mb Flash		
Bus	Front Side Bus	100/133 MHz		
	PCI	64-bit/66 MHz		
	ISA	HISA (ISA high drive)		
Memory	Technology	PC-133/100 registered SDRAM with ECC support		
	Max. Capacity	4 GB		
	Socket	168-pin DIMM x4		
Graphic	Controller	ATI RAGE XL		
	VRAM	8 MB SGRAM		
Ethernet	Interface	10/100Base-T		
	Controller	Intel 82559 x2		
	Connector	RJ-45 x2		
EIDE	Mode	ATA 33		
	Channel	2 (Max. 4 devices)		
I/O Interface	USB	Max. 4 (USB 1.1 compliant)		
	Serial	2 (RS-232)		
	Parallel	1 (SPP/EPP/ECP)		
	FDD	1		
	PS/2	1 (for mouse and keyboard, Y cable included)		
Watchdog Timer	Output	Interrupt, system reset		
	Interval	Programmable, 1 ~ 63 sec.		
Miscellaneous	Solid State Disk	IDE flash disk		
	Typical	Dual Pentium III 1 GHz, 2 GB SDRAM		
Power Requirement	+5 V	-12 V	+12 V	
	12.31 A	348 mA	6 mA	
	Operating		Non-Operating	
Environment	Temperature	0 ~ 60 °C (32 ~ 140 °F)		-20 ~ 70 °C (-4 ~ 158 °F)
	Physical	Dimensions	338 x 122 mm (13.3" x 4.8")	

### Ordering Information

Part Number	HISA	VGA (PCI)	SCSI	LAN
PCA-6278V-00A1	v	v	--	--
PCA-6278VE-00A1	v	v	--	Single
PCA-6278E2-00A1	v	v	--	Dual

### Packing List

FDD cable	X 1	1700340640
IDE HDD cable	X 2	1701400607
Printer + COM cable	X 1	1701260305
Y cable for PS/2 mouse & keyboard	X 1	1700060202
Jumper pack	X 1	9689000068
Startup manual	X 1	--
Utility CD	X 1	--

### Accessory Options

USB cable with 2 ports	1700100170
CPU cooler for Pentium III up to 1.26 GHz, for 1U chassis	1759254100

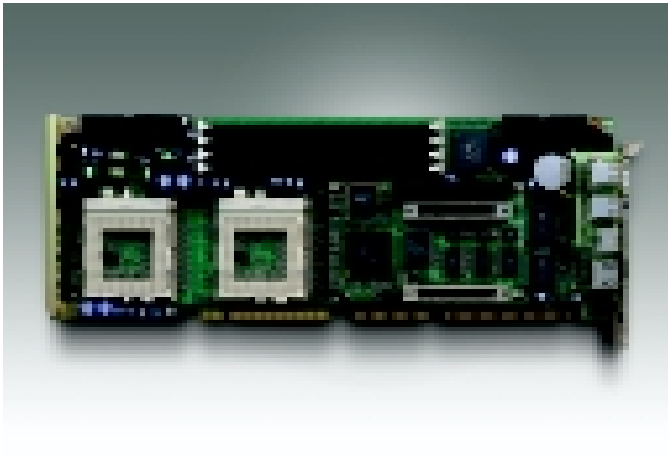


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# PCA-6277

## Dual Socket 370 Pentium® III Processor Card with VGA/Dual LAN/SCSI/HISA (133 MHz FSB)



### Features

- Dual Socket 370 Pentium III up to 1 GHz
- VIA Apollo Pro 133A 100/133 MHz FSB
- Onboard high performance AGP 4X VGA with 32 MB SDRAM
- Supports dual 10/100Base-T Ethernet, RTL8139C controller
- Onboard Adaptec AIC-7892 Ultra 160 up to 160 MB/sec.
- CMOS automatic backup and restore to prevent accidental data loss of BIOS setup

### Specifications

Processor System	CPU	Intel® Pentium III x2			
	Max. Speed	1 GHz			
	L2 Cache	256 KB			
	Chipset	VIA Apollo Pro133A			
Bus	BIOS	Award 2 Mb Flash			
	Front Side Bus	100/133 MHz			
	PCI	32-bit/33 MHz			
	ISA	HISA (ISA high drive)			
Memory	Technology	PC-133/100 SDRAM with ECC support			
	Max. Capacity	2 GB			
	Socket	168-pin DIMM x4			
Graphic	Controller	ATI RAGE Pro 128 4XL (AGP 4X)			
	VRAM	32 MB SDRAM			
Ethernet	Interface	10/100Base-T			
	Controller	RTL8139C x2			
	Connector	RJ-45 x2			
SCSI	Interface	Ultra 160			
	Controller	Adaptec AIC-7892			
	Max. Data Transfer Rate	160 MB/sec.			
EIDE	Channel	1			
	Mode	ATA 100/66/33			
I/O Interface	Channel	2 (Max. 4 devices)			
	USB	Max. 4 (USB 1.1 compliant), 4 ports onboard for E2, F versions			
	Serial	2 (RS-232)			
	Parallel	1 (SPP/EPP/ECP)			
	FDD	1			
	PS/2	2 (mouse x1, keyboard x1)			
Watchdog Timer	Output	Interrupt, system reset			
	Interval	Programmable, 1 ~ 63 sec.			
Power Requirement	Typical	Dual Pentium III 1 GHz, 384 MB SDRAM			
		+5 V	-5 V	+12 V	-12 V
Environment		11.8 A	0.1 A	0.5 A	0.1 A
	Temperature	Operating		Non-Operating	
Physical		0 ~ 60 °C (32 ~ 140 °F)		-20 ~ 70 °C (-4 ~ 158 °F)	
	Dimensions	338 x 122 mm (13.3" x 4.8")			

### Ordering Information

Part Number	HISA	VGA (AGP)	SCSI	LAN
PCA-6277V-00A1	v	v	--	--
PCA-6277VE-00A1	v	v	--	Single
PCA-6277E2-00A1	v	v	--	Dual
PCA-6277F-00A1	v	v	v	Dual

### Packing List

FDD cable	X 1	1700340640
IDE HDD cable	X 2	1701400452
Printer + COM cable	X 1	1701260305
Jumper pack	X 1	9689000068
Startup manual	X 1	--
Utility CD	X 1	--

### Accessory Options

USB cable with 2 ports	1700100170
USB extension module with 4 ports (only for V, VE versions)	PCA-USB4-00A1
SCSI cable (125 cm) with terminator	1701060000
CPU cooler for Pentium III up to 1 GHz	1759207200



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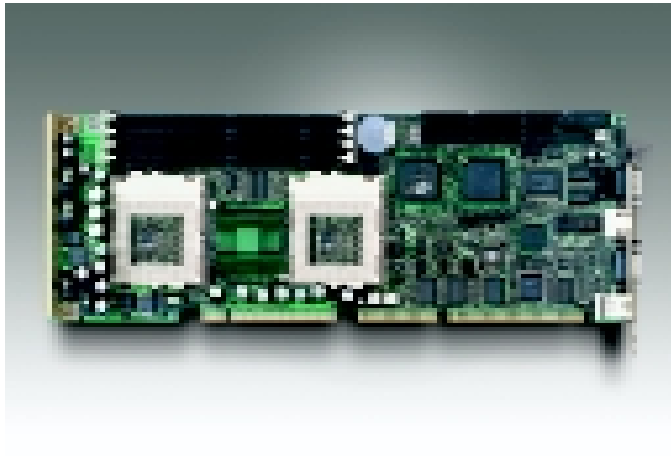
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# PCA-6276

## Dual Socket 370 Pentium® III Processor Card with VGA/LAN/HISA (100 MHz)



### Features

- Dual Socket 370 Pentium III up to 850 MHz
- Intel® 440BX 100 MHz FSB
- Onboard high performance AGP 2X VGA with 4/8 MB SGRAM
- Supports 10/100Base-T Ethernet, Intel 82559 controller
- CMOS automatic backup and restore to prevent accidental data loss of BIOS setup

### Specifications

Processor System	CPU	Intel Pentium III x2		
	Max. Speed	850 MHz		
	L2 Cache	256 KB		
	Chipset	Intel 440BX		
	BIOS	Award 2 Mb Flash		
Bus	Front Side Bus	100 MHz		
	PCI	32-bit/33 MHz		
	ISA	HISA (ISA high drive)		
Memory	Technology	PC-100 SDRAM with ECC support		
	Max. Capacity	1 GB		
	Socket	168-pin DIMM x4		
Graphic	Controller	ATI RAGE XL (AGP 2X)		
	VRAM	4/8 MB SGRAM		
Ethernet	Interface	10/100Base-T		
	Controller	Intel 82559		
	Connector	RJ-45		
EIDE	Mode	ATA 33		
	Channel	2 (Max. 4 devices)		
I/O Interface	USB	Max. 2 (USB 1.1 compliant)		
	Serial	2 (RS-232)		
	Parallel	1 (SPP/EPP/ECP)		
	FDD	1		
	PS/2	1 (for mouse and keyboard, Y cable included)		
Watchdog Timer	Output	Interrupt, system reset		
	Interval	Programmable, 1 ~ 63 sec.		
Power Requirement	Typical	Dual Pentium III 850 MHz, 1 GB SDRAM		
		+5 V	+12 V	-12 V
		11.76 A	600 mA	200 mA
Environment	Temperature	Operating		Non-Operating
		0 ~ 60 °C (32 ~ 140 °F)		-20 ~ 70 °C (-4 ~ 158 °F)
Physical	Dimensions	338 x 122 mm (13.3" x 4.8")		

### Ordering Information

Part Number	HISA	VGA (PCI)	LAN
PCA-6276V-00B1	v	v (4 MB)	--
PCA-6276VE-00B1	v	v (4 MB)	v
PCA-6276V-02B1	v	v (8 MB)	--
PCA-6276VE-02B1	v	v (8 MB)	v

### Packing List

CPU fan	X 2	1759207200
FDD cable	X 1	1700340640
IDE HDD cable	X 2	1701400607
Printer + COM cable	X 1	1701260305
ATX-to-PS/2 power cable	X 1	1700000450
Y cable for PS/2 mouse & keyboard	X 1	1700060202
Jumper pack	X 1	9689000068
Startup manual	X 1	--
Utility CD	X 1	--

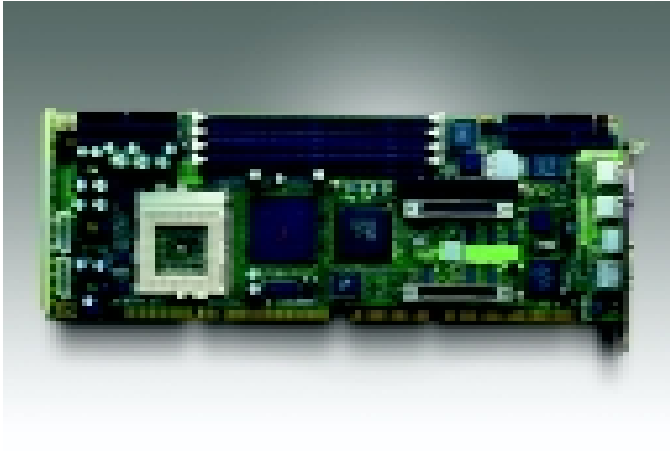
### Accessory Options

USB cable with 2 ports	1700100170
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# PCA-6183

## Socket 370 Pentium® III/Celeron® Processor (Tualatin) Card with 64-bit PCI/VGA/Dual LAN/HISA (133 MHz FSB)



### Features

- Socket 370 Pentium III/Celeron up to 1.4 GHz
- Up to 4 GB registered SDRAM
- Onboard high performance VGA with 8 MB SDRAM
- Supports 10/100/1000Base-T Ethernet or dual 10/100Base-T Ethernet, Broadcom 5701/Intel 82559 controller
- 64-bit/66 MHz PCI bus interface
- Onboard hardware monitoring
- CMOS automatic backup and restore to prevent accidental data loss of BIOS setup

### Specifications

Processor System	CPU	Intel®Pentium III	Intel Celeron
	Max. Speed	1.4 GHz	1.2 GHz
	L2 Cache	512/256 KB	256/128 KB
	Chipset	ServerWorks ServerSet 30LC-T	
	BIOS	Award 2 Mb Flash	
Bus	Front Side Bus	100/133 MHz	
	PCI	64-bit/66 MHz	
	ISA	HISA (ISA high drive)	
Memory	Technology	PC-133/100 registered SDRAM with ECC support	
	Max. Capacity	4 GB	
	Socket	168-pin DIMM x4	
Graphic	Controller	ATI RAGE XL	
	VRAM	8 MB SDRAM	
Ethernet	Interface	10/100Base-T x2; 10/100/1000Base-T (optional)	
	Controller	Intel 82559 x2(FE); Broadcom 5701 (Gigabit)	
	Connector	RJ-45 x2	
EIDE	Mode	ATA 33	
	Channel	2 (Max. 4 devices)	
SCSI	Interface	Ultra 160 (64-bit PCI)	
	Controller	Adaptec AIC-7899W	
	Max. Data Transfer Rate	160 MB/sec.	
I/O Interface	Channel	2	
	USB	Max. 4 (USB 1.1 compliant), 4 ports onboard for E2, F versions	
	Serial	2 (RS-232)	
	Parallel	1 (SPP/EPP/ECP)	
	FDD	1	
Watchdog Timer	PS/2	1 (for L, V, VG, GS versions), 2 (for E2, F versions)	
	Output	Interrupt, system reset	
Miscellaneous	Interval	Programmable, 1 ~ 63 sec.	
	Solid State Disk	IDE flash disk	
Power Requirement	Typical	Pentium III 1.26 GHz, 4 GB SDRAM	
	+5 V	+12 A	-12 V
	8 A	492 mA	212 mA
Environment	Operating	Non-Operating	
	Temperature	0 ~ 60 °C (32 ~ 140 °F) / -20 ~ 70 °C (-4 ~ 158 °F)	
Physical	Dimensions	338 x 122 mm (13.3" x 4.8")	

### Ordering Information

Part Number	HISA	VGA (PCI)	SCSI	Fast Ethernet LAN	Gigabit LAN
PCA-6183L-00A1	v	--	--	--	--
PCA-6183V-00A1	v	v	--	--	--
PCA-6183E2-00A1	v	v	--	Dual	--
PCA-6183VG-00A1	v	v	--	--	Single
PCA-6183F-00A1	v	v	v	Dual	--
PCA-6183GS-00A1	v	v	v	--	Single

### Packing List

FDD cable	X 1	1700340640
IDE HDD cable	X 2	1701400607
Printer + COM cable	X 1	1701260305
Y cable for PS/2 mouse & keyboard (only for L, V, VG, GS versions)	X 1	1700060202
Single-slot bracket	X 1	1962159010
Jumper pack	X 1	9689000068
Startup manual	X 1	--
Utility CD	X 1	--

### Accessory Options

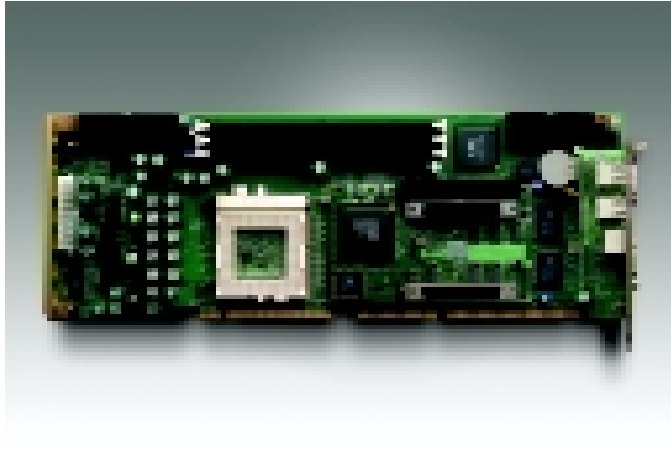
USB cable with 2 ports	1700100170
USB extension module with 4 ports (only for V, VG, GS versions)	PCA-USB4-00A1
SCSI cable (125 cm) with terminator	1701060000
CPU cooler for Pentium III up to 1.26 GHz, for 1U chassis	1759254100



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# PCA-6181

## Socket 370 Pentium® III/Celeron® Processor (Tualatin) Card with VGA/Dual LAN/SCSI/HISA (133 MHz FSB)



### Features

- Socket 370 Pentium III/Celeron up to 1.4 GHz
- VIA Apollo Pro 133T 66/100/133 MHz FSB
- Onboard high performance AGP 4X VGA with 32 MB SDRAM
- Supports dual 10/100Base-T Ethernet, Realtek 8139C controller
- Onboard Adaptec AIC-7899 dual channel Ultra 160 SCSI up to 160 MB/sec.
- CMOS automatic backup and restore to prevent accidental data loss of BIOS setup

### Specifications

Processor System	CPU	Intel® Pentium III	Intel Celeron
	Max. Speed	1.4 GHz	1.2 GHz
	L2 Cache	512/256 KB	128/256 KB
	Chipset	VIA Apollo Pro133T	
	BIOS	Award 2 Mb Flash	
Bus	Front Side Bus	66/100/133 MHz	
	PCI	32-bit/33 MHz	
	ISA	HISA (ISA high drive)	
Memory	Technology	PC-133/100 SDRAM with ECC support	
	Max. Capacity	1.5 GB	
	Socket	168-pin DIMM x 3	
Graphic	Controller	ATI RAGE Pro 128 4XL (AGP 4X)	
	VRAM	32 MB SDRAM	
Ethernet	Interface	10/100Base-T	
	Controller	RTL8139C x2	
	Connector	RJ-45 x2	
SCSI	Interface	Ultra 160	
	Controller	Adaptec AIC-7899	
	Max. Data Transfer Rate	160 MB/sec.	
EIDE	Channel	2 (Max. 4 devices)	
	Mode	ATA 100/66/33	
	Channel	2 (Max. 4 devices)	
I/O Interface	USB	Max. 4 (USB 1.1 compliant), 4 ports onboard for E2, F versions	
	Serial	2 (RS-232)	
	Parallel	1 (SPP/EPP/ECP)	
	FDD	1	
	PS/2	1 (for L, V, VE, ES versions), 2 (for E2, F versions)	
Watchdog Timer	Output	Interrupt, system reset	
	Interval	Programmable, 1 ~ 63 sec.	
Power Requirement	Typical	Pentium III 1 GHz, 256 MB SDRAM	
		+5 V	+12 V
		6.8 A	400 mA
Environment	Operating		Non-Operating
	Temperature	0 ~ 60 °C (32 ~ 140 °F)	-20 ~ 70 °C (-4 ~ 158 °F)
Physical	Dimensions	338 x 122 mm (13.3" x 4.8")	

### Ordering Information

Part Number	HISA	VGA (AGP)	SCSI	LAN
PCA-6181L-00A1	v	--	--	--
PCA-6181V-00A1	v	v	--	--
PCA-6181VE-00A1	v	v	--	Single
PCA-6181E2-00A1	v	v	--	Dual
PCA-6181ES-00A1	v	v	v	Single
PCA-6181F-00A1	v	v	v	Dual

### Packing List

FDD cable	X 1	1700340640
IDE HDD cable	X 2	1701400452
Printer + COM cable	X 1	1701260305
Y cable for PS/2 mouse & keyboard (only for L, V, VE, ES versions)	X 1	1700060202
Jumper pack	X 1	9689000068
Startup manual	X 1	--
Utility CD	X 1	--

### Accessory Options

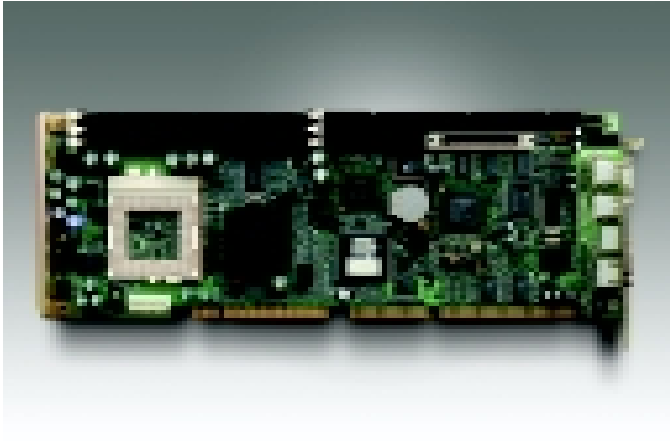
USB cable with 2 ports	1700100170
USB extension module with 4 ports (only for V, VE, ES versions)	PCA-USB4-00A1
SCSI cable (125 cm) with terminator	1701060000
CPU cooler for Pentium III up to 1.26 GHz, for 1U chassis	1759254100



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# PCA-6180-B

## Socket 370 Pentium® III/Celeron® Processor (Tualatin) Card with VGA/Dual LAN/SCSI/HISA (133 MHz FSB)



### Features

- Socket 370 Pentium III/Celeron up to 1.4 GHz
- Intel® 815E (B) 100/133 MHz FSB
- Onboard integrated VGA controller, share memory architecture
- Supports dual 10/100Base-T Ethernet, Intel 82559/82562 controller
- CMOS automatic backup and restore to prevent accidental data loss of BIOS setup

### Specifications

Processor System	CPU	Intel Pentium III	Intel Celeron
	Max. Speed	1.4 GHz	1.2 GHz
	L2 Cache	512/256 KB	256/128 KB
	Chipset	Intel 815E	
	BIOS	Award 4 Mb FWH	
Bus	Front Side Bus	66/100/133 MHz	
	PCI	32-bit/33 MHz	
	ISA	HISA (ISA high drive)	
Memory	Technology	PC-133/100 SDRAM	
	Max. Capacity	512 MB	
	Socket	168-pin DIMM x3	
Graphic	Controller	Chipset integrated VGA controller	
	VRAM	Dynamically shared system memory	
Ethernet	Interface	10/100Base-T	
	Controller	LAN 1: Chipset Built-in MAC with external PHY (Intel 82562) LAN 2: Intel 82559	
	Connector	RJ-45 x2	
SCSI	Interface	Ultra 160	
	Controller	Adaptec AIC-7892	
	Max. Data Transfer Rate	160 MB/sec.	
EIDE	Channel	1	
	Mode	ATA 100/66/33	
I/O Interface	Channel	2 (Max. 4 devices)	
	USB	4 onboard (USB 1.1 compliant)	
	Serial	2 (RS-232)	
	Parallel	1 (SPP/EPP/ECP)	
	FDD	1	
	PS/2	2 (for mouse and keyboard, Y cable included)	
Watchdog Timer	Output	Interrupt, system reset	
	Interval	Programmable, 1 ~ 255 sec.	
Power Requirement	Typical	Pentium III 866 MHz, 128 MB SDRAM	
		+5 V                    +12 V                    -12 V	
		6 A                      400 mA                    20 mA	
Environment	Operating	0 ~ 60 °C (32 ~ 140 °F)	Non-Operating -20 ~ 70 °C (-4 ~ 158 °F)
	Temperature		
Physical	Dimensions	338 x 122 mm (13.3" x 4.8")	

### Ordering Information

Part Number	HISA	VGA	SCSI	LAN
PCA-6180E-00B1	v	v	--	Single
PCA-6180E2-00B1	v	v	--	Dual
PCA-6180ES-00B1	v	v	v	Single
PCA-6180F-00B1	v	v	v	Dual

### Packing List

FDD cable	X 1	1700340640
IDE HDD cable	X 2	1701400452
Printer + COM cable	X 1	1701260305
ATX-to-PS/2 power cable	X 1	1700000450
Y cable for PS/2 mouse & keyboard	X 1	1700060202
Jumper pack	X 1	9689000068
Startup manual	X 1	--
Utility CD	X 1	--

### Accessory Options

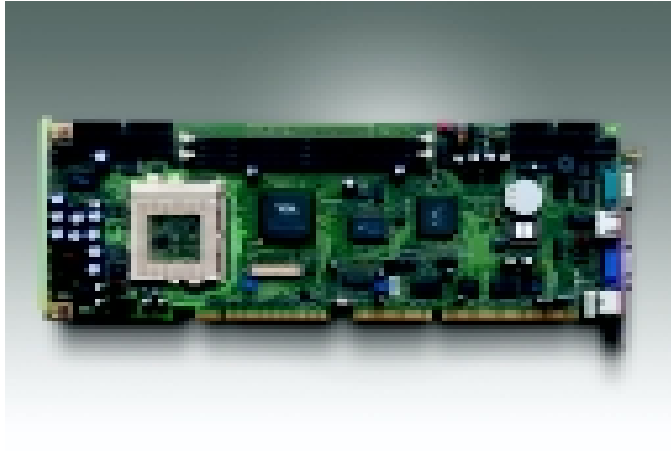
USB cable with 2 ports	1700100170
SCSI cable (125 cm) with terminator	1701060000
CPU cooler for Pentium III up to 1.26 GHz, for 1U chassis	1759254100



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# PCA-6003

## Socket 370 Pentium® III/Celeron® Processor (Tualatin) Card with VGA/LAN/HISA/LCD (133 MHz FSB)



### Features

- Cost-effective Socket 370 SBC with full features
- Pentium III up to 1.4 GHz, Celeron up to 1.2 GHz
- VIA Apollo PLE133T chipset, supports 66/100/133 MHz FSB
- Two DIMM Sockets for SDRAM up to 1 GB
- Onboard AGP/VGA
- Onboard 10/100Base-T networking controller
- Optional ISA high drive (HISA)

### Specifications

Processor System	CPU	Intel® Pentium III	Intel Celeron
	Max. Speed	1.4 GHz	1.2 GHz
	L2 Cache	512/256 KB	256/128 KB
	Chipset	VIA Apollo PLE133T	
	BIOS	Award 2 Mb Flash	
Bus	Front Side Bus	66/100/133 MHz	
	PCI	32-bit/33 MHz	
	ISA	HISA (ISA high drive), only for PCA-6003H-00A1	
Memory	Technology	PC-133/100 SDRAM with ECC support	
	Max. Capacity	1 GB	
	Socket	168-pin DIMM x2	
Graphic	Controller	Chipset integrated VGA controller	
	VRAM	Share system memory up to 8 MB	
	LCD	Optional 18-bit TFT LCD support	
Ethernet	Interface	10/100Base-T	
	Controller	RTL8139C	
	Connector	RJ-45	
EIDE	Mode	ATA 100/66/33	
	Channel	2 (Max. 4 devices)	
I/O Interface	USB	Max. 2 (USB 1.1 compliant)	
	Serial	2 (RS-232)	
	Parallel	1 (SPP/EPP)	
	FDD	1	
	PS/2	1 (for mouse and keyboard, Y cable included)	
Watchdog Timer	Output	Interrupt, system reset	
	Interval	Programmable, 1 ~ 63 sec.	
Miscellaneous	Audio Output	AC-97 audio interface (requires an audio extension module P/N: PCA-AUDIO-00A1)	
	Typical	Pentium III 1 GHz, 256 MB SDRAM	
Power Requirement	+5 V		+12 V
	6.8 A		400 mA
Environment	Operating	0 ~ 60 °C (32 ~ 140 °F)	Non-Operating
	Temperature		-20 ~ 70 °C (-4 ~ 158 °F)
Physical	Dimensions	338 x 122 mm (13.3" x 4.8")	

### Ordering Information

Part Number	HISA	VGA	LAN	LCD
PCA-6003V-00A1	--	v	--	--
PCA-6003VE-00A1	--	v	v	--
PCA-6003H-00A1	v	v	v	v

### Packing List

FDD cable	X 1	1700340640
IDE HDD cable	X 2	1701400452
Printer + COM cable	X 1	1701260305
Y cable for PS/2 mouse & keyboard	X 1	1700060202
Jumper pack	X 1	9689000068
Startup manual	X 1	--
Utility CD	X 1	--

### Accessory Options

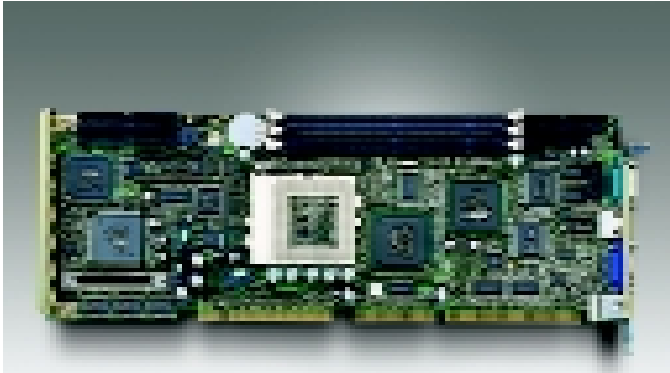
USB cable with 2 ports	1700100170
Audio extension module	PCA-AUDIO-00A1
CPU cooler for Pentium III up to 1.26 GHz, for 1U chassis	1759254100



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# PCA-6179

## Socket 370 Pentium® III Processor Card with VGA/LAN/ SCSI/HISA (133 MHz FSB)



### Features

- Socket 370 Pentium III up to 1 GHz
- VIA Apollo Pro 133A 100/133 MHz FSB
- Onboard high performance AGP 4X VGA with 8/32 MB SDRAM
- Supports 10/100Base-T Ethernet, RTL8139C controller
- Onboard Symbios SYM53C895 Ultra2 SCSI up to 80 MB/sec
- CMOS automatic backup and restore to prevent accidental data loss of BIOS setup

### Specifications

Processor System	CPU	Intel® Pentium III	
	Max. Speed	1 GHz	
	L2 Cache	256 KB	
	Chipset	VIA Apollo Pro133A	
	BIOS	Award 2 Mb Flash	
Bus	Front Side Bus	100/133 MHz	
	PCI	32-bit/33 MHz	
	SCSI	HISA (ISA high drive)	
Memory	Technology	PC-133/100 SDRAM with ECC support	
	Max. Capacity	1.5 GB	
	Socket	168-pin DIMM x3	
Graphic	Controller	ATI RAGE Pro 128 4XL (AGP 4X)	
	VRAM	8/32 MB	
Ethernet	Interface	10/100Base-T	
	Controller	RTL8139C	
	Connector	RJ-45	
SCSI	Interface	Ultra2 wide	
	Controller	Symbios SYM53C895	
	Max. Data Transfer Rate	80 MB/sec.	
	Channel	1	
EIDE	Mode	ATA 66/33	
	Channel	2 (Max. 4 devices)	
I/O Interface	USB	Max. 2 (USB 1.1 compliant)	
	Serial	2 (RS-232)	
	Parallel	1 (SPP/EPP/ECP)	
	FDD	1	
	PS/2	1 (for mouse and keyboard, Y cable included)	
Watchdog Timer	Output	Interrupt, system reset	
	Interval	Programmable, 1 ~ 63 sec.	
Miscellaneous	Solid State Disk	M-system's DOC 2000 (144 MB)	
	Typical	Pentium III 600EB, 128 MB	
Power Requirement	+5 V	+12 V	-12 V
	4.8 A	400 mA	20 mA
	Operating	Non-Operating	
Environment	Temperature	0 ~ 60 °C (32 ~ 140 °F)	-20 ~ 70 °C (-4 ~ 158 °F)
	Physical	Dimensions	
		338 x 122 mm (13.3" x 4.8")	

### Ordering Information

Part Number	HISA	VGA (AGP)	SCSI	LAN
PCA-6179L-00A1	v	--	--	--
PCA-6179V-00A1	v	v (8 MB)	--	--
PCA-6179VE-00A1	v	v (8 MB)	--	v
PCA-6179VS-00A1	v	v (8 MB)	v	--
PCA-6179F-00A1	v	v (8 MB)	v	v
PCA-6179V-02A1	v	v (32 MB)	--	--
PCA-6179VE-02A1	v	v (32 MB)	--	v
PCA-6179F-02A1	v	v (32 MB)	v	v

### Packing List

CPU fan		1759207200
FDD cable	X 1	1700340640
IDE HDD cable	X 2	1701400452
Printer + COM cable	X 1	1701260305
ATX-to-PS/2 power cable	X 1	1700000450
Y cable for PS/2 mouse & keyboard	X 1	1700060202
Jumper pack	X 1	9689000068
Startup manual	X 1	--
Utility CD	X 1	--

### Accessory Options

USB cable with 2 ports	1700100170
SCSI cable (125 cm) with terminator	1701060000



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For More Information



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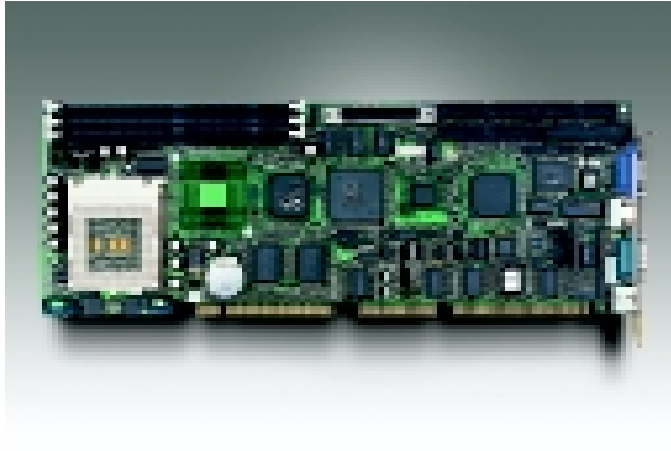
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# PCA-6178-B

## Socket 370 Pentium® III/Celeron® Processor Card with VGA/LAN/SCSI/HISA (66/100 MHz FSB)



### Features

- Socket 370 Pentium III/Celeron up to 850/800 MHz
- Intel® 440BX chipset 66/100 FSB
- Onboard high performance AGP 2X VGA with 4/8 MB SGRAM
- Supports 10/100Base-T Ethernet, Intel 82559 controller
- Onboard Symbios SYM53C895 Ultra2 SCSI up to 80 MB/sec.
- CMOS automatic backup and restore to prevent accidental data loss of BIOS setup

### Specifications

Processor System	CPU	Intel Pentium III	Intel Celeron
	Max. Speed	850 MHz	800 MHz
	L2 Cache	256 KB	128 KB
	Chipset	Intel 440BX	
	BIOS	Award 2 Mb Flash	
Bus	Front Side Bus	66/100 MHz	
	PCI	32-bit/33 MHz	
	ISA	HISA (ISA high drive)	
Memory	Technology	PC-100 SDRAM with ECC support	
	Max. Capacity	768 MB	
	Socket	168-pin DIMM x3	
Graphic	Controller	ATI RAGE XL (AGP 2X)	
	VRAM	4/8 MB	
	Interface	10/100Base-T	
Ethernet	Controller	Intel 82559	
	Connector	RJ-45	
	Interface	Ultra2 wide	
SCSI	Controller	Symbios SYM53C895	
	Max. Data Transfer Rate	80 MB/sec.	
	Channel	1	
EIDE	Mode	ATA 33	
	Channel	2 (Max. 4 devices)	
I/O Interface	USB	Max. 2 (USB 1.1 compliant)	
	Serial	2 (RS-232)	
	Parallel	1 (SPP/EPP/ECP)	
	FDD	1	
	PS/2	1 (for mouse and keyboard, Y cable included)	
Watchdog Timer	Output	Interrupt, system reset	
	Interval	Programmable, 1 ~ 63 sec.	
Miscellaneous	Solid State Disk	M-systems' DOC 2000 (144 MB)	
	Typical	Pentium III 700 MHz, 192 MB SDRAM	
Power Requirement	+5 V	+12 V	-12 V
	5.2 A	400 mA	20 mA
	Operating	Non-Operating	
Environment	Temperature	0 ~ 60 °C (32 ~ 140 °F)	-20 ~ 70 °C (-4 ~ 158 °F)
	Physical	Dimensions	338 x 122 mm (13.3" x 4.8")

### Ordering Information

Part Number	HISA	VGA (AGP)	SCSI	LAN
PCA-6178L-00B1	v	--	--	--
PCA-6178V-00B1	v	v (4 MB)	--	--
PCA-6178VE-00B1	v	v (4 MB)	--	v
PCA-6178VS-00B1	v	v (4 MB)	v	--
PCA-6178F-00B1	v	v (4 MB)	v	v
PCA-6178V-02B1	v	v (8 MB)	--	--
PCA-6178VE-02B1	v	v (8 MB)	--	v
PCA-6178F-02B1	v	v (8 MB)	v	v

### Packing List

CPU fan	X 1	1759207200
FDD cable	X 1	1700340640
IDE HDD cable	X 2	1701400607
Printer + COM cable	X 1	1701260305
ATX-to-PS/2 power cable	X 1	1700000450
Y cable for PS/2 mouse & keyboard	X 1	1700060202
Jumper pack	X 1	9689000068
Startup manual	X 1	--
Utility CD	X 1	--

### Accessory Options

USB cable with 2 ports	1700100170
SCSI cable (125 cm) with terminator	1701060000

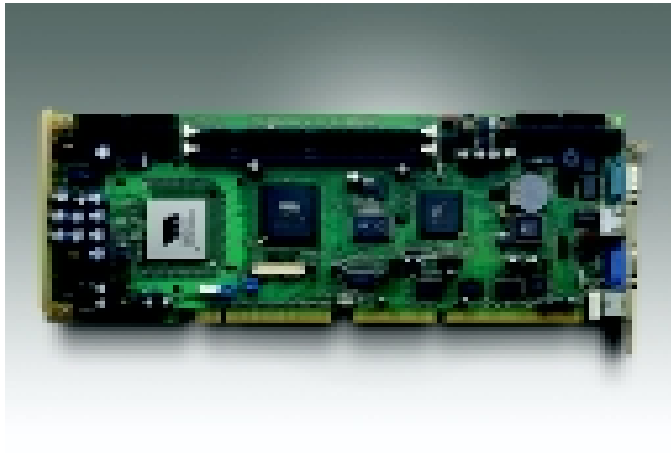






# PCA-6004

**VIA C3 800 MHz Card with VGA/  
LAN/HISA/LCD (133 MHz FSB)**



## Features

- Embedded low-power C3 800 MHz CPU
- Fanless operation (external cooling required)
- VIA Apollo PLE133T chipset, 133 MHz FSB
- Dual DIMM sockets for SDRAM up to 1 GB
- Onboard AGP/VGA
- Onboard 10/100Base-T networking controller
- Optional ISA high drive (HISA)

## Specifications

Processor System	CPU	VIA C3 EBGA	
	Max. Speed	800 MHz	
	Cache	L1 128 KB, L2 64 KB	
	Chipset	VIA Apollo PLE133T	
	BIOS	Award 2 Mb Flash	
Bus	Front Side Bus	133 MHz	
	PCI	32-bit/33 MHz	
	ISA	HISA (ISA high drive), only for PCA-6004H-00A1	
Memory	Technology	PC-133/100 SDRAM with ECC Support	
	Max. Capacity	1 GB	
	Socket	168-pin DIMM x2	
Graphic	Controller	Chipset integrated VGA controller	
	VRAM	Share system memory up to 8 MB	
	LCD	Optional 18-bit TFT LCD support	
Ethernet	Interface	10/100Base-T	
	Controller	RTL8139C	
	Connector	RJ-45	
EIDE	Mode	ATA 100/66/33	
	Channel	2 (Max. 4 devices)	
I/O Interface	USB	2 (USB 1.1 compliant)	
	Serial	2 (RS-232)	
	Parallel	1 (SPP/EPP)	
	FDD	1	
	PS/2	1 (for mouse and keyboard, Y cable included)	
Watchdog Timer	Output	Interrupt, system reset	
	Interval	Programmable, 1 ~ 63 sec.	
Miscellaneous	Audio Output	AC-97 audio interface (requires an audio extension module P/N: PCA-AUDIO-00A1)	
Power Requirement	Typical	128 MB SDRAM	
		+5 V	+12 V
		3.1 A	110 mA
Environment	Temperature	Operating	Non-Operating
		0 ~ 60 °C (32 ~ 140 °F)	-20 ~ 70 °C (-4 ~ 158 °F)
Physical	Dimensions	338 x 122 mm (13.3" x 4.8")	

## Ordering Information

Part Number	HISA	VGA	LAN	LCD
PCA-6004V-00A1	--	v	--	--
PCA-6004VE-00A1	--	v	v	--
PCA-6004H-00A1	v	v	v	v

## Packing List

IDE HDD cable	X 2	1701400452
Printer + COM cable	X 1	1701260305
Y cable for PS/2 mouse & keyboard	X 1	1700060202
Jumper pack	X 1	9689000068
Startup manual	X 1	--
Utility CD	X 1	--

## Accessory Options

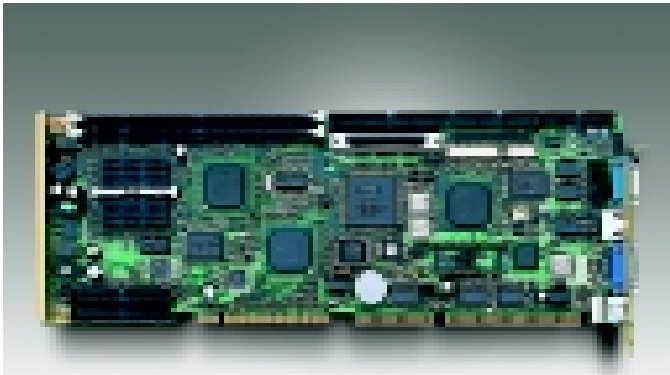
USB cable with 2 ports	1700100170
Audio extension module	PCA-AUDIO-00A1



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# PCA-6359

**Pentium® MMX Processor 266 MHz Card  
with VGA/LAN/SCSI/HISA/LCD**



## Features

- Onboard low-power Pentium MMX 266 MHz CPU
- Fanless operation
- Onboard VGA with LCD support
- Supports 10/100Base-T Ethernet, Intel® 82559ER controller
- Onboard Symbios SYM53C875E Ultra Wide SCSI up to 40 MB/sec.
- CMOS automatic backup and restore to prevent accidental data loss of BIOS setup

## Specifications

Processor System	CPU	Intel Pentium MMX	
	Max. Speed	266 MHz	
	L2 Cache	512 KB (PB-SRAM)	
	Chipset	Intel 430TX	
	BIOS	Award 2 Mb Flash	
Bus	Front Side Bus	66 MHz	
	PCI	32-bit/33 MHz	
	SCSI	HISA (ISA high drive)	
Memory	Technology	PC-66 SDRAM	
	Max. Capacity	256 MB	
	Socket	168-pin DIMM x2	
Graphic	Controller	69000	
	VRAM	2 MB	
Ethernet	Interface	10/100Base-T	
	Controller	Intel 82559ER	
	Connector	RJ-45	
SCSI	Interface	8/16-bit Ultra Wide	
	Controller	Symbios SYM53C875E	
	Max. Data Transfer Rate	40 MB/sec.	
EIDE	Mode	ATA 33	
	Channel	2 (Max. 4 devices)	
I/O Interface	USB	Max. 2 (USB 1.1 compliant)	
	Serial	2 (RS-232)	
	Parallel	1 (SPP/EPP/ECP)	
	FDD	1	
	PS/2	1 (for mouse and keyboard, Y cable included)	
Watchdog Timer	Output	Interrupt, system reset	
	Interval	Programmable, 1 ~ 63 sec.	
Miscellaneous	Solid State Disk	M-systems' DOC 2000 (144 MB)	
	Typical	Pentium MMX, 128 MB SDRAM	
Power Requirement	+5 V	+12 V	-12 V
	2.5 A	200 mA	20 mA
	Operating	Non-Operating	
Environment	Temperature	0 ~ 60 °C (32 ~ 140 °F)	
	Temperature	-20 ~ 70 °C (-4 ~ 158 °F)	
Physical	Dimensions	338 x 122 mm (13.3" x 4.8")	

## Ordering Information

Part Number	HISA	VGA	SCSI	LAN	LCD
PCA-6359L-00A1	--	--	--	--	--
PCA-6359V-00A1	--	v	--	--	v
PCA-6359VE-00A1	--	v	--	v	v
PCA-6359F-00A1	--	v	v	v	v
PCA-6359H-00A1	v	v	v	v	v

## Packing List

FDD cable	X 1	1700340640
IDE HDD cable	X 2	1701400607
Printer + COM cable	X 1	1701260305
ATX-to-PS/2 power cable	X 1	170000450
Y cable for PS/2 mouse & keyboard	X 1	1700060202
SCSI 50-pin female head cable (90 cm), only for F version	X 1	1701500900
SCSI 68-pin cable (60 cm) only for F version	X 1	1701680600
Jumper pack	X 1	9689000068
Startup manual	X 1	--
Utility CD	X 1	--

## Accessory Options

USB cable with 2 ports	1700100170
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For More Information



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