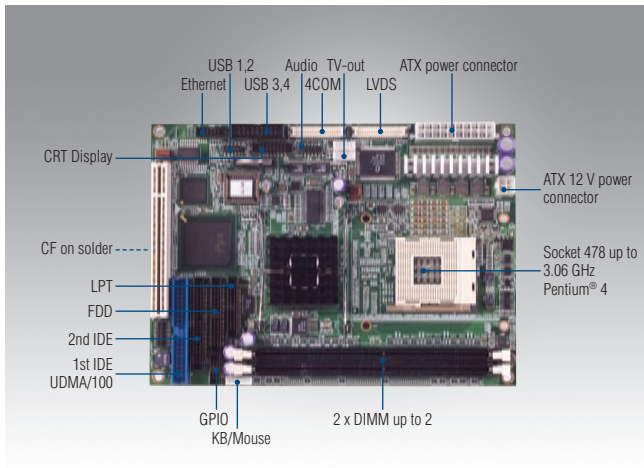


# PCM-9580

Socket 478 Intel® Pentium® 4 SBC  
w/GbE LAN, USB 2.0, VGA/LVDS and 4 COM



## Features

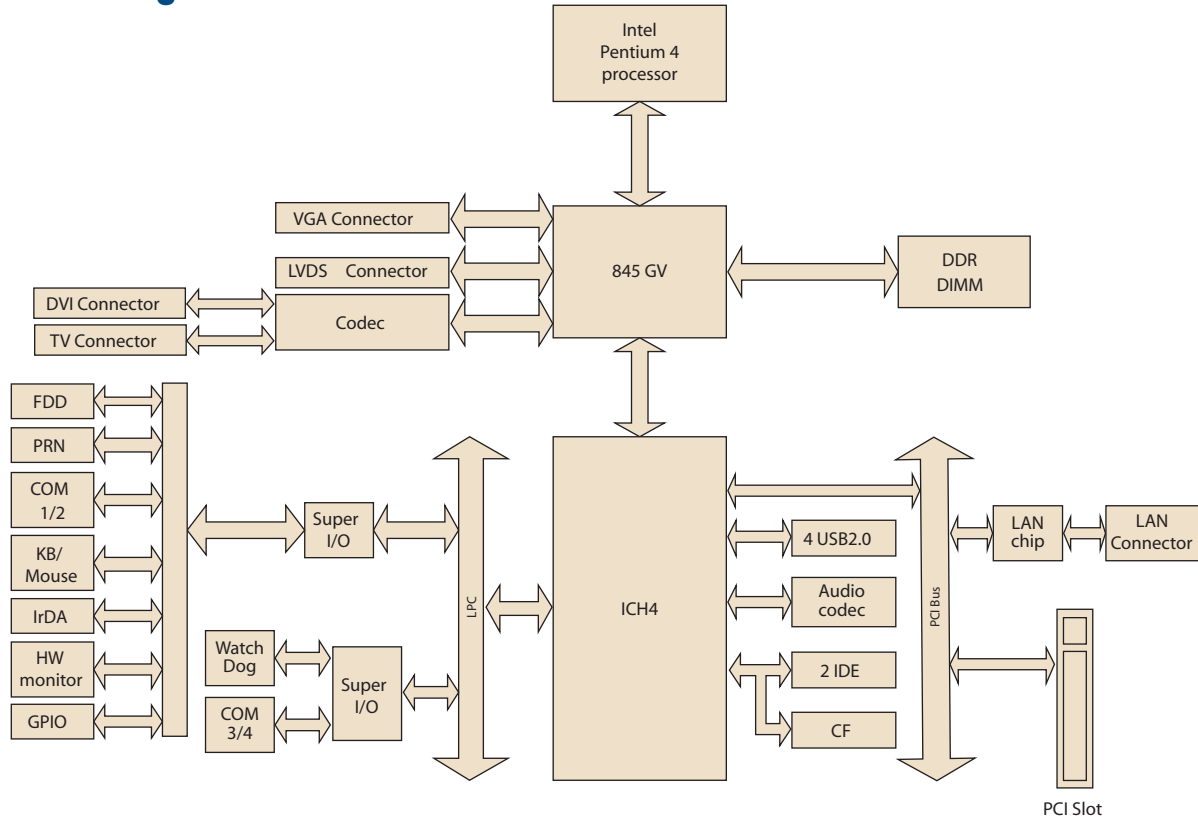
- Socket 478 up to 3.06 GHz Intel® Pentium® 4 (0 ~ 60° C)
- Two 184-pin DIMM sockets, support 128 MB to 2 GB, accepts 128/256/512/1024 MB DDR200/266/333 DRAM
- Supports Gigabit Ethernet (PCM-9580FG)
- Supports Embedded USB, four USB 2.0 ports
- Supports 2-channel 48-bit LVDS interface
- Optional Audio Interface



## Specifications

Processor System	CPU	Socket 478 for Intel Celeron/Pentium 4 up to 3.06 GHz
	Front Side Bus	400/533 MHz
	L2 Cache	512 KB ~ 1 MB
	Chipset	Intel 845GV (845GV GMCH + ICH4)
	BIOS	Award 4 Mbit
Memory	Technology	DDR 200/266/333
	Max. Capacity	2 GB
	Socket	2 x 184-pin DIMM
SSD	CompactFlash	Card Type I, Type II
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
EIDE	Mode	UDMA 100
	Channel	2
Expansion Slot	PCI	1
Ethernet	Speed	10/100Mbps (PCM-9580F); 10/100/1000Mbps (PCM-9580FG)
	Controller	Intel 82551ER [Intel 82551QM optional (PCM-9580F) Intel® 82541PI (PCM-9580FG)
	Interface	RJ-45 by cable
Display	Controller	Intel 845GV + Chronitel CH7017
	VRAM	Up to 32 MB frame buffer using system memory
	LVDS LCD	1 x 48-bit LVDS
Environment	Operation Temperature	0 ~ 60° C (32 ~ 140° F) for Pentium 4 up to 3.06 GHz
	Operating Humidity	0% ~ 90% relative humidity, non-condensing
Power	Power Type	ATX
	Power Supply Voltage	+5 V ± 5%, +12 V ± 5%, +3.3 V ± 5%
	Power Consumption: Typical	Typical : +12 V_CPU @ 1.95 A, +5 V @ 0.37 A, +3.3 V @ 3.2 A, +12 V @ 0.1 A
	Power Consumption: Max, test in HCT	Max: +12 V_CPU @ 6.15 A, +5 V @ 0.41 A, +3.3 V @ 3.46 A, +12 V @ 0 A. (In HCT) +12 V_CPU @ 5.62 A, +5 V @ 0.41 A, +3.3 V @ 4.28 A, +12 V @ 0.11 A (QAPLus) (With 1 GB DDR DRAM, Pentium 4 3.06 GHz)
	Power Management	APM, ACPI
Watchdog Timer	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	TV out	10/100	Giga LAN	Audio	USB2.0	RS-232	RS/232/422/485	LPT/FDD/KB/MS	CF	PCI Slot	Operation Temp.
PCM-9580F-00A2E	Socket 478	--	Yes	48-bit	Yes	1	--	Yes	6	3	1	Yes	Yes	1	0 ~ 60° C
PCM-9580FG-00A2E	Socket 478	--	Yes	48-bit	Yes	--	1	Yes	6	3	1	Yes	Yes	1	0 ~ 60° C

## Optional Accessories

Part No.	Description
PCM-10586-6000E	Wiring Kit for PCM-9580F
PCM-10586-6G00E	Wiring Kit for PCM-9580FG (Gigabit LAN)
PCM-231A-00A1	Audio out module
1703100121	USB cable 12 cm
1703100260	USB cable (26 cm)
1759214200	Pentium 4 CPU cooler with fan for 1U chassis
PCM-110-00A3E	1-slot PCI riser card for 5.25" biscuits
PCM-120-00A3E	2-slot PCI riser card for 5.25" biscuits

## Packing List

Part No.	Description	Quantity
	PCM-9580 SBC	1
9689000002	Mini Jumper Pack (conts.: 10 pcs)	1
	Startup Manual	1
	Utility CD	1