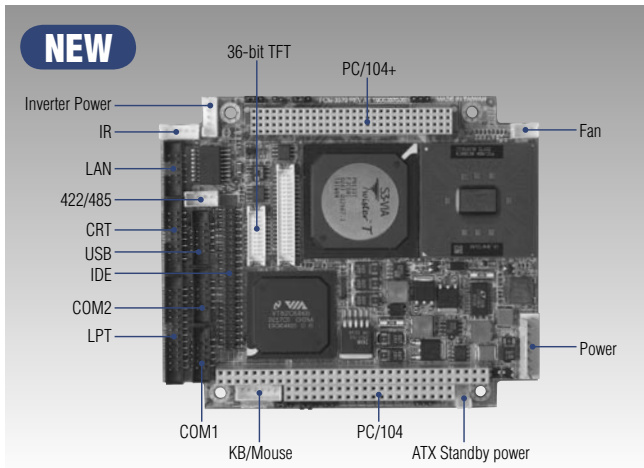


# PCM-4170

LV Intel® Pentium® III PC/104-Plus  
CPU Module, -40 ~ +85° C



## Features

- ULV Intel® Celeron® 400, Phoebus design
- Chipset: VIA® VT8606/TwisterT and VT82C686B
- VGA/LCD controller with optimized Shared Memory Architecture (SMA)
- Four AGP VGA/LCD & LCD controller up to 1024 x 768
- +5 V and +12 V power supply required
- 10/100Mbps PCI Ethernet interface
- PC/104 and PC/104-Plus expansion connector
- Support for onboard 128MB Flash Memory, IDE interface
- One SODIMM socket supports up to 512 MB SDRAM

## Specifications

### General

- **CPU** Onboard ULV Intel Celeron 400
- **2nd Cache Memory** 256 KB
- **System Chipset** VIA VT8606/TwisterT + VT82C686B
- **BIOS** AWARD® 256 KB Flash BIOS
- **System Memory** 1 x SODIMM socket, supports up to 512 MB SDRAM
- **Power Management** Supports Advanced Power Management
- **SSD** N/A
- **Flash** 128 MB Flash onboard, support up to 1 GB
- **Watchdog Timer** 1.6 sec – interval Watchdog timer, set up by software, jumperless selection, generates system reset or IRQ11
- **Expansion Interface** 104-pin 16-bit PC/104 module connector and 120-pin PCI PC/104-Plus module connector

### I/O

- **I/O Interface** 1 x EIDE, 1 x LPT, 1 x RS-232/422/485, 1 x RS232, 1 x K/B, 1 x Mouse
- **USB** 2 x Universal Serial Bus 1.1 compliant ports
- **IrDA** Share with COM2, transfer rate up to 1.15 Mbps
- **I/O Expansion** Support for + 5 V FAN, speed detect connector

### Ethernet

- **Chipset** Intel 82551ER
- **Speed** 10/100Base-T
- **Interface** 1 x internal box header

### Display

- **Chipset** \*VIA VT8606  
4X AGP controller, supporting CRT  
18/24/36 bit TTL interface

### Mechanical and Environmental

- **Dimension (L x W)** 96 x 115 mm
- **Weight** 0.162 kg (with heat sink)
- **Operating Temperature** 0 – 60° C
- **Operating Humidity** 0% – 90% relative humidity, non-condensing

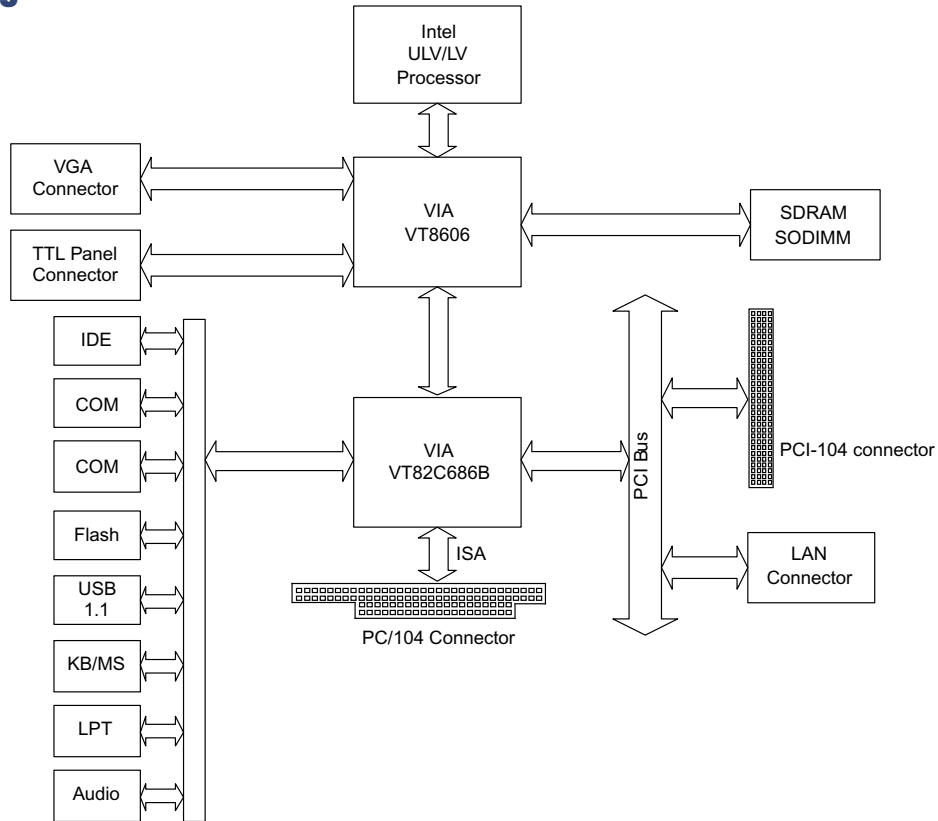
### Power

- **Power Supply Voltage** AT/ATX, +5 V ±5%, +12 V ±5%
- **Power Consumption** Typical: 2.43 A @ +5 V (ULV Celeron 400 MHz CPU)  
0.02 A @ +12 V (ULV Celeron 400 MHz CPU)  
Max: 2.47 A @ +5 V (ULV Celeron 400 MHz CPU)  
0.06 A @ +12 V (ULV Celeron 400 MHz CPU)

## Packing List

- 1 x PCM-4170 SBC
- 1 x KB/Mouse Y-Cable (p/n:1700060202)
- 1 x COM port cable 25cm (p/n:1700100250)
- 1 x LPT cable 25cm (p/n:1700260250)
- 1 x Ethernet RJ-45 Conn. conversion cable 20cm (p/n:1701100202)
- 1 x VGA cable 15cm (p/n:1701160150)
- 1 x IDE cable 44P/44P 35cm (p/n:1701440350)
- 1 x Y-Cable external cable 5cm (p/n:1703060053)
- 1 x Wire AT Power 10cm (p/n:1703080104)
- 1 x Wire ATX Power 38cm (p/n:1703200380)
- 1 x Startup manual
- 1 x CD-ROM (Manual, Driver, Utility)

## Board Diagram



## Ordering Information

Part No.	CPU	L2 Cache	Chipset	CRT	LVDS	TTL	10/100	USB 1.1	RS-232	RS-422/485	LPT	onboard Flash	KB/MS	PCI-104 connector	PC/104 connector	Thermal Solution	Operation Temp.	ETT service
PCM-4170Z2-J0A1E	ULV Celeron 400 Mhz	256 KB	VIA8606+ 686B	Yes	--	36-bit	1	2	2	*Option	Yes	128 MB	Yes	Yes	Yes	Passive	-40 - 85° C	Phoenix Platinum
PCM-4170FY-J0A1E	ULV Celeron 400 Mhz	256 KB	VIA8606+ 686B	Yes	--	36-bit	1	2	2	*Option	Yes	128 MB	Yes	Yes	Yes	Passive	-40 - 85° C	Phoebus

### Optional Accessories

- RS-422/485 cable (p/n:1703040257)
- 12cm USB cable (p/n:1703100121)
- 26cm USB cable (p/n:1703100261)