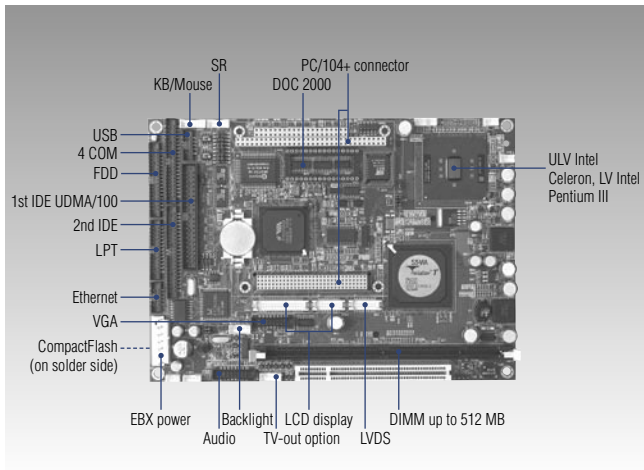


PCM-9579

ULV Intel® Celeron®, LV Intel Pentium® III
SBC with CPU, Audio, VGA/LCD and LAN



Specifications

General

- **CPU** Embedded Ultra Low Voltage Intel Celeron or Low Voltage Pentium III Processor, on-die 32 KB L1 cache memory ULV Celeron-400 (PCM-9579F-J0A1E), ULV Celeron-650 (PCM-9579F-M0A1E), LV Pentium III-933 (PCM-9579F-R0A1E)
- **2nd Cache Memory** 256 KB/512 KB on ULV Celeron/LV Pentium III processor
- **System Chipset** VT8606, VT82C686B, 133 MHz FSB
- **BIOS** AWARD® 256 kbit Flash BIOS
- **System Memory** SDRAM 168-pin PC/100 or 1 x 133 DIMM, Max: 512 MB
- **Power Management** APM 1.1, ACPI Support
- **SSD** CompactFlash® card Type I/II and DiskOnChip®
- **Watchdog Timer** 1 - 62 sec, 62 level interval timer, system reset or IRQ11
- **Expansion Interface** PC/104-Plus (ISA & PCI) and PCI slot
- **Battery** Lithium 3 V/196 mAH

I/O

- **I/O Interface** 2 x EIDE (Ultra DMA 100), 1 x FDD, 1 x K/B, 1 x Mouse, 1 x RS-232/422/485, 3 x RS-232, 1 x LPT
- **USB** 4 x USB ports, USB 1.1 compliant
- **Audio** Realtek ALC202 AC'97 codec, AC'97 2.0 compliant, Mic-in, Line-in, CD Audio-in, Line-out, Speaker-out
- **IrDA** 115 kbps, IrDA 1.1 compliant
- **GPIO** -

Ethernet

- **Chipset** RealTek® RTL8139DL
- **Speed** 10/100 Mbps
- **Interface** RJ45 by cable
- **Standard** IEEE 802.3u 100BASE-T Fast Ethernet compatible
Built-in boot ROM in Flash BIOS

Features

- ULV Intel® Celeron®, LV Intel Pentium® III SBC with CPU, Audio, VGA/LCD and Ethernet
- Fanless, 0 ~ 60° C operation (PCM-9579F-J0A1E or PCM-9579F-M0A1E)
- EBX form factor standard, also supports PC/104-Plus
- Supports Wake-on-LAN, Wake-on-Modem
- Supports LCD backlight turn-off function
- 100/133 MHz FSB and 4X AGP graphics for high performance applications
- Extended temperature optional

Display

- **Chipset** VIA® Twister chip with Integrated S3 Savage4 2D/3D/Video Accelerator
- **Memory Size** 8/16/32 MB frame buffer using system memory
- **Resolution** CRT Mode: 1280 x 1024 @ 16 bpp (60 Hz), 1024 x 768 @ 16 bpp (85 Hz), LCD/Simultaneous Mode: 1280 x 1024 @ 16 bpp (60 Hz), 1024 x 768 @ 16 bpp (60 Hz)
- **LCD Interface** 4X AGP VGA/LCD interface, Support for 18, 24, 36-bit TFT and 16 or 24-bit DSTN panels up to SXGA resolution
- **LVDS** 2-Channel (2 x 18-bit) LVDS interface
- **TV-Out (optional)** Supports both NTSC/PAL, S-video and Composite Video
- **Dual Independent Display** -

Mechanical and Environment

- **Dimension (L x W)** 203 x 146 mm (8" x 5.75")
- **Weight** 0.85 kg (weight of total package)
- **Operating Temperature** 0 ~ 60° C (32 ~ 140° F)
- **Operating Humidity** 0% ~ 90% relative humidity, non-condensing
- **Storage Temperature** -20 ~ 70° C (accessories Storage temperature: -20 ~ 60° C)
- **Storage Humidity** 95% @ 60° C

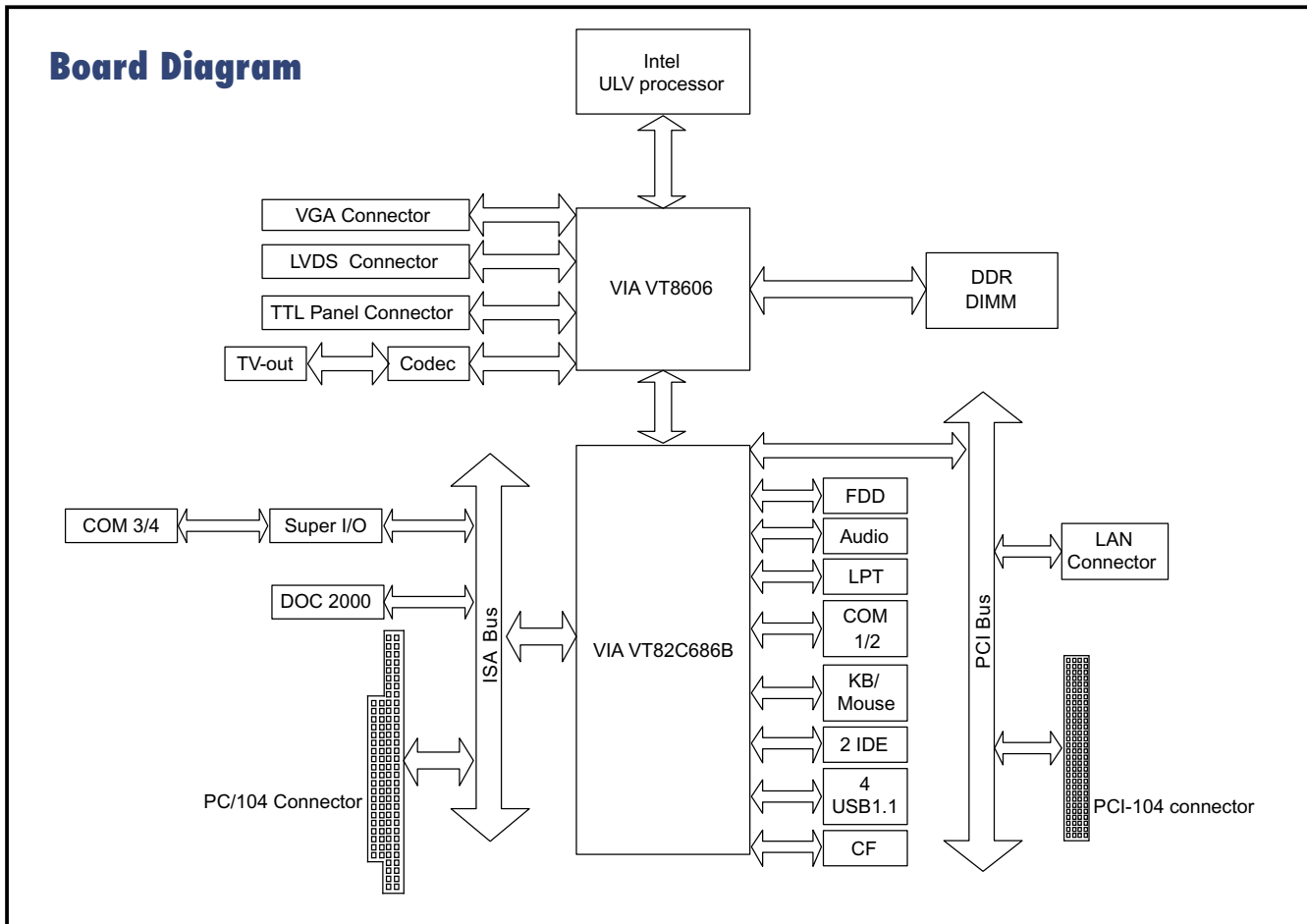
Power

- **Power Supply Voltage** +5 V ±5%
- **Power Consumption** Max.: 4.5 A @ +5 V (with 256 MB, ULV Celeron-650)
Typical: 2.99 A @ +5 V (with 256 MB DRAM, ULV Celeron-400 CPU) 3.29 A @ +5 V (with 256 MB DRAM, ULV Celeron-650 CPU)

Packing List

- 1 x PCM-9579 SBC
- 1 x Mini Jumper Pack: 10 pcs (p/n: 9689000002)
- 1 x Startup Manual
- 1 x Utility CD
- 1 x EBX 7P-4P power cable (p/n: 1703080101)

Board Diagram



Ordering Information

Part No.	CPU	L2 Cache	CRT	LVDS/TTL	TV-out	10/100	Audio	USB 1.1	RS-232	RS-232/422/485	LPT/FDD/KB/MS	CF	DOC 2000	PCI-104 connector	PC/104 connector	PCI Slot	Thermal Solution	Operation Temp.
PCM-9579F-R0A1E	ULV Pentium III 900 MHz	512 KB	Yes	36-bit	Yes	1	Yes	4	3	1	Yes	Yes	Yes	Yes	Yes	1	Active	0 ~ 60° C
PCM-9579F-M0A1E	ULV Celeron 650 MHz	256 KB	Yes	36-bit	Yes	1	Yes	4	3	1	Yes	Yes	Yes	Yes	Yes	1	Passive	0 ~ 60° C
PCM-9579Z-M0A1E	ULV Celeron 650 MHz	256 KB	Yes	36-bit	Yes	1	Yes	4	3	1	Yes	Yes	Yes	Yes	Yes	1	Passive	-20 ~ 80° C
PCM-9579F-J0A1E	ULV Celeron 400 MHz	256 KB	Yes	36-bit	Yes	1	Yes	4	3	1	Yes	Yes	Yes	Yes	Yes	1	Passive	0 ~ 60° C
PCM-9579Z-J0A1E	ULV Celeron 400 MHz	256 KB	Yes	36-bit	Yes	1	Yes	4	3	1	Yes	Yes	Yes	Yes	Yes	1	Passive	-20 ~ 80° C

Optional Accessories

- **PCM-10586-5A00E** Wiring kit for PCM-9575/9577/9579
- **1703100260** USB cable for PCM-9572F/9576F/9550F/9575
- **1703100121** USB cable for PCM-9570/9550/9576/9575 to meet MBPC-300 chassis
- **CF-HDD-ADP** CompactFlash 50-pin to IDE 44-pin adapter
- **1703070101** ATX power control cable
- **1703050306** TV-out cable
- **PCM-110-00A3E** 1-slot PCI riser card for 5.25" biscuits
- **PCM-120-00A3E** 2-slot PCI riser card for 5.25" biscuits
- **PCM-200-00A2E** PCI-104 to PCI bus module