PCM-4386

Onboard Intel® Celeron® M EPIC CPU Module

NEW

Battery Connector
Power Switch
RS422/485
IDE
ATX Power connector
GPIO
COM2/3/4
USB2/3
ISA _-5V
LVDS Connector
VGA CON
Inverter Power
LAN1   LAN2
KB_MS
HD & Power LED
System FAN
USB0/1   LPT AC97
COM1
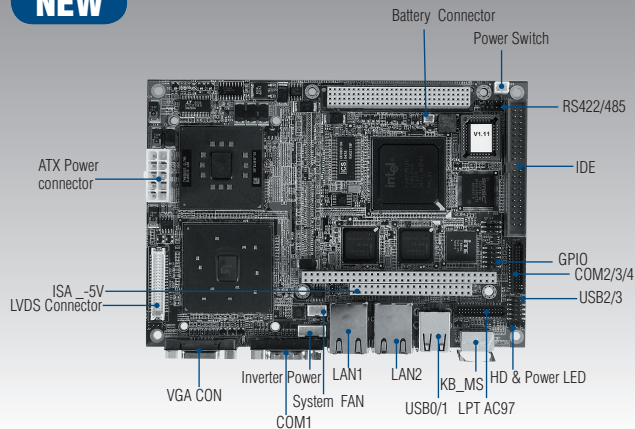
CE FCC

Features

- EPIC form factor (115 mm x 165 mm)
- Embedded Celeron® M Processor on board and support for PC/104-Plus bus
- SODIMM socket supports up to 1GB DDR SDRAM (optional)
- Display Combination: CRT + LVDS display support
- Support 4 COM & 4 Ports USB 2.0
- Dual 10/100/1000 Mbps PCI Ethernet interface
- Support Compact Flash

Specifications

General

CPU	Embedded Intel Celeron M
System Chipset	Intel 852GM GMCH/ICH4 Chipset
BIOS	AWARD® 512 kbit Flash BIOS
System Memory	184 pin DIMM socket, support ECC Double Data Rate (DDR) 128 MB to 1 GB, accept 128/256/512/1 G DDR200/266 DRAM
Power Management	APM1.2, ACPI support
SSD	Supports CompactFlash® Card TYPE I/II (shared 2nd IDE Channel) USB memory, uDOC (option)
WatchDog Timer	Single chip watch dog 255-level timer interval, setup by software
Expansion Interface	Supports 8/16 bit ISA bus for standard PC/104 device (ITE 8888g), PC/104-Plus
Battery	2 Pin wafer box for external Battery on board

I/O

I/O Interface	1 x EIDE (UDMA 100), 1 x FDD, 1 x K/B, 1 x KB/mouse, 3 x RS232, 1 x RS232/422/485, 1 x LPT
USB	4 x USB 2.0 compliant Ports (2 ports on board connector, 2 ports pinhead)
Audio	ICH4 AC97 3D surround stereo sound
	Supports Speaker out, CD-input, Line -in, Line-out, Microphone (with PCM-4386D option)
IrDA	N/A
GPIO	8-bit general purpose input/output

Ethernet

Chipset	Intel 82551ER, optional 82541ER
Speed	10/100/1000 Mbps
Interface	1 x RJ45
Standard	IEEE 802.3u 100Base-T

Display

Chipset	Intel 852GM chip integrated. (Extreme Graphics 2)
Memory Size	Optimized Shared Memory Architecture, supports up to 64 MB frame buffer using system memory
Resolution	CRT Display mode: pixel resolution up to 1600 x 1200 at 85-Hz and 2048 x 1536 at 75-Hz
	LCD Display mode: Dual channel LVDS panel supports up to UXGA panel resolution with frequency range from 25 MHz to 112 MHz
LCD Interface	2 Channel (2 x 18/36-bit) LVDS
LVDS	Hirose connector support up to 2 channel (2 x 18-bit) LVDS LCD Panel
Dual Independent	CRT + 36-bit LVDS

Mechanical and Environmental

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Dimension (LxW)	115 mm x 165 mm (4.5" x 6.5")
Weight	0.85 kg (weight of total package)
Operating Temperature	0 ~ 60° C (32 ~ 140° F)
Operating Humidity	0% ~ 90% relative humidity, non-condensing

Power

Power Supply Voltage	+5 V ± 5%, +12 V ± 5%
Power Consumption	(Celeron M 600 with 256 MB DDR266) Max(HCT): 2.63 A @ 5 V, 0.03 A @ 12 V Typical: 2.62 A @ 5 V, 0.03 A @ 12 V

Packing List

- 1 x PCM-4386 SBC
- 1 x Mini Jumper Pack   (p/n:9689000002)
- 1 x Startup Manual
- 1 x Utility CD
- 1 x ATX Power Cable   (p/n:1700001112)

ADVANTECH   **Stackable Modules**

Board Diagram
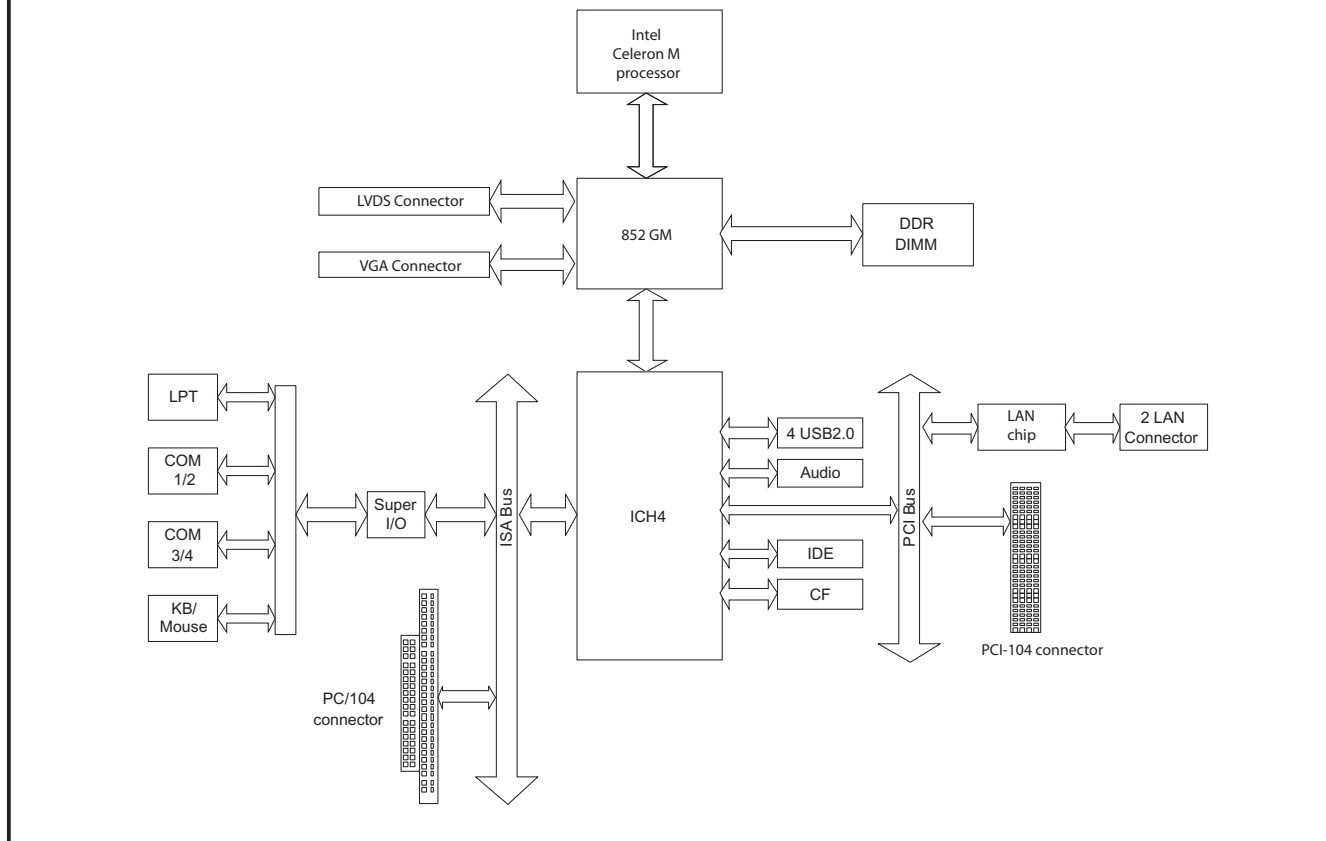
Ordering information

Number	CPU	Chipset	10/100	Giga	LVDS	USB2.0	COM	GPIO	LPT	CF	PC/104-plus
PCM-4386F-M0A1	Celeron M 600 (0 K)	855 GM	2	X	2 channel 36/48 bit	4	4 ports	8	1	Yes	Yes
PCM-4386G-M0A1	Celeron M 600 (0 K)	855 GM	X	2	2 channel 36/48 bit	4	4 ports	8	1	Yes	Yes
PCM-4386F-S4A1	Celeron M 1 G (512 K)	855 GME	2	X	2 channel 36/48 bit	4	4 ports	8	1	Yes	Yes
PCM-4386G-S4A1	Celeron M 1 G (512 K)	855 GME	X	2	2 channel 36/48 bit	4	4 ports	8	1	Yes	Yes

1 System On Modules

2 Stackable Modules

3 Single Board Computers

4 Slot CPU Cards

5 Industrial Motherboards

6 Embedded Box Computers

7 Panel PCs

8 UbiQ-Ubiquitous Computing

9 Digital Signage & Display Solutions

10 Vehicle Mounted Computing Platforms

11 Medical Computing Platforms

12 Embedded Software Solutions