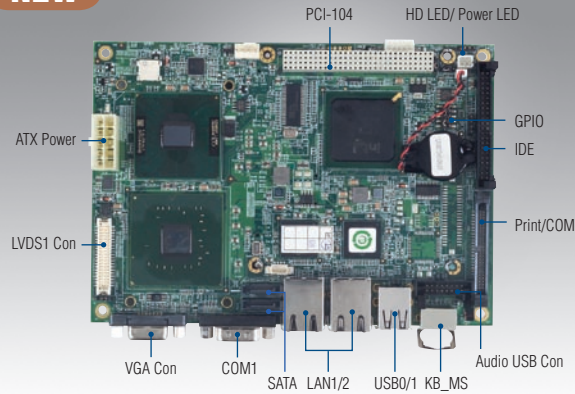


# PCM-4390

Onboard Intel® Core™ Duo EPIC SBC with  
LVDS/ VGA/ 2 GbE LAN/8 GPIO/ 2 SATA

**NEW**



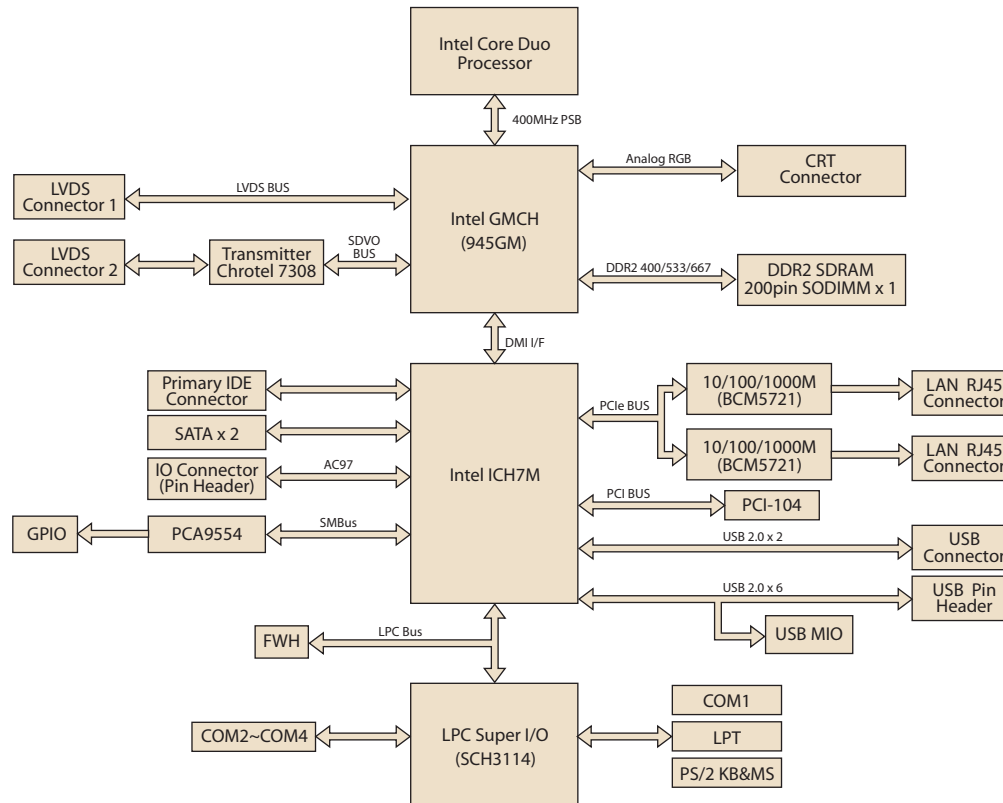
## Features

- EPIC Standard form factor (115 x 165 mm)
- High Performance on board Intel® Core™ Duo Processor and with PCI-104 interface
- Fanless CPU on board design at Intel U2500 and Celeron-M 423
- Display Combination: CRT + LVDS, 36-bit+ 48-bit (optional) LVDS display support
- Supports four COM ports , 8 USB 2.0 ports & 8-bit GPIO
- Supports two SATAII ports
- Dual 10/100/1000 Mbps PCI Ethernet interface
- Supports USB-DOM

## Specifications

Processor System	CPU	Intel Core Duo up to 1.66 GHz
	Front Side Bus	533 / 667 MHz
	L2 Cache	Up to 2 MB
	Chipset	Intel 945GM + ICH7M
	BIOS	Award 4 Mbit
Memory	Technology	DDR2 400/533/667
	Max. Capacity	2 GB
	Socket	1 x 200-pin SODIMM
SSD	CompactFlash	- , UDOM (SSD supported)
I/O Interface	LPT	1
	RS-232	3
	RS-232/422/485	1
	K/B	1
	Mouse	1
	USB	8 x USB 2.0 (2 via USB DOM connector)
	Audio	AC97, Line-in, Line-out, Mic-in (optional with PCM-410)
	GPIO	8-bit general purpose input/output
SATA	SMBus	Supported
	Max. Data Transfer Rate	150
EIDE	Channel	2
	Mode	UDMA 33
Expansion Slot	Channel	1
	PCI-104	1
Ethernet	Speed	10/100/1000Mbps
	Controller	2 x BroadCom BCM5721
	Interface	2 x RJ-45
Display	Controller	Intel 945GM
	VRAM	Optimized Shared Memory Architecture up to 224 MB system memory
	LVDS LCD	1 x 36-bit LVDS; 1 x 48-bit LVDS (optional)
	Dual Independent Display	CRT + LVDS LVDS+ LVDS (optional)
Environment	Operation Temperature	0 ~ 60° C (32 ~ 140° F)
	Operating Humidity	0% ~ 90% relative humidity, non-condensing
Power	Power Type	ATX
	Power Supply Voltage	+5 V ± 5%, +3 V ± 5%, 5VSB ± 5%, ±12 V, ± 5% (Optional, 12 V optional for PC/104 add on card and LCD inverter)
	Power Consumption: Typical	3.75 A @ 5 V, 0.49 A @ 3.3 V, 1.08 A @ 5 VSB, 0.48 A @ 12 V (Core Duo 1.2 GHz with 512 MB DDR2 memory)
	Power Management	APM, ACPI
	Battery	Lithium 3 V / 196 mAH
Watchdog Timer	Output	System reset
	Interval	Programmable 1 ~ 255 sec
Physical Characteristics	Dimensions (L x W)	115 x 165 mm (4.5" x 6.5")
	Weight	0.35 kg (0.77 lb), with heatsink

## Board Diagram



## Ordering Information

Number	CPU	L2 Cache	Chipset	Giga	LVDS1	LVDS2 (Optional)	USB2.0	COM	GPIO	LPT	CF	USB-DOM	Audio	PCI-104	Thermal Solution	Operation Temp.
PCM-4390F-S6A1E	Core Duo 1.66 GHz	2 MB	945 GM	2	36-bit	48-bit	8	4 ports	8	1	-	Yes	Optional	Yes	Active	0-60° C
PCM-4390F-S2A1E	Core Duo 1.2 GHz	2 MB	945 GM	2	36-bit	48-bit	8	4 ports	8	1	-	Yes	Optional	Yes	Passive	0-60° C
PCM-4390F-S0A1E	Celeron M 1.06 GHz	1 MB	945 GM	2	36-bit	48-bit	8	4 ports	8	1	-	Yes	Optional	Yes	Passive	0-60° C

### Optional Accessories

Part No.	Description
PCD-USBH1I-MS0256	USB-DOM, 256 MB, -40 ~ 85° C
PCD-USBH1I-MS0512	USB-DOM, 512 MB, -40 ~ 85° C
PCD-USBH1I-MS1024	USB-DOM, 1 GB, -40 ~ 85° C
PCD-USBH1I-MS2048	USB-DOM, 2 GB, -40 ~ 85° C
PCM-410B-00A1E	HD Audio/USB module for PCM-4372/4390
PCM-410C-00A1E	COM/LPT daughter board for EPIC

### Packing List

Part No.	Description	Quantity
	PCM-4390 SBC	1
9689000002	Mini Jumper Pack	1
	Startup Manual	1
	Utility CD	1
1700002034	3 COM and LPT cable	1
1700002055	ATX power cable	1
1700060202	6P-6P-6P PS/2 KB/MS	1
1700001267	USB CABLE for 10 Pin port 29 CM	1
1701440504	IDE cable	1
1700004891	USB CABLE 20 Pin port 30 CM	1
1700071000	SATA cable	1
1703040157	RS-422/485 cable	1