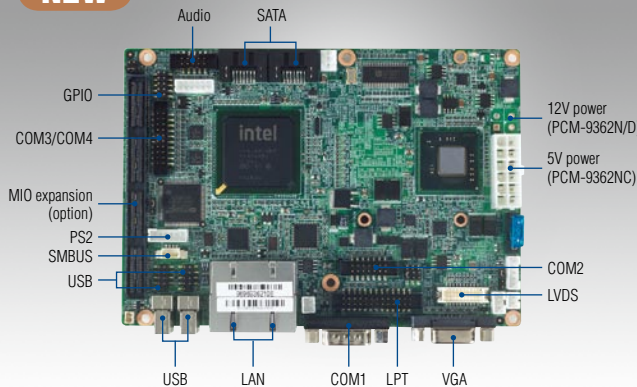


# PCM-9362

Intel® Atom™ N450/ D510 3.5" SBC, LVDS, CRT, 2 Giga LAN, Mini PCIe, 4 COM

**NEW**



## Features

- Embedded Intel® Atom™ processor N450 Single Core/ D510 Dual Core 1.66 GHz + ICH8M
- Intel Gen 3.5 DX9, MPEG2 Decode in HW, multiple display: CRT, 18-bit LVDS
- Supports 12 V input power for PCM-9362N/D, 5V input power for PCM-9362NC
- Supports 2 Intel Giga Ethernet ports; Rich I/O interfaces with 4 COM, 2 SATA, 6 USB and GPIO
- Supports embedded software APIs and utilities

### Software APIs:



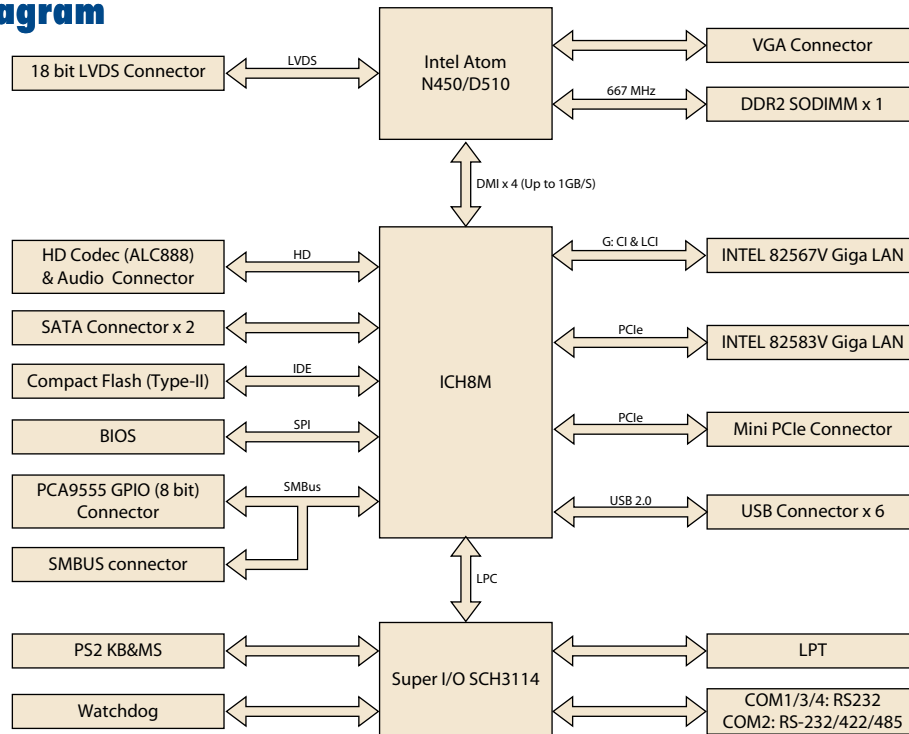
### Utilities:



## Specifications

Processor System	CPU	Intel Atom Processor, N450 Single Core 1.66 GHz Intel Atom Processor, D510 Dual Core 1.66 GHz
	Front Side Bus	667 MHz
	Frequency	1.66 GHz
	L2 Cache	512 KB/1 MB
	System Chipset	Intel N450/D510 + ICH8M
Memory	BIOS	AMI 16 Mbit Flash BIOS
	Technology	DDR2 667 MHz
	Max. Capacity	2 GB
Display	Socket	1 x 200-pin SODIMM
	Chipsset	Intel Atom N450/D510 1.66 GHz
	VRAM	Optimized Shared Memory Architecture up to 224 MB system memory
	Graphics Engine	Intel Gen 3.5 DX9, MPEG2 Decode in HW Embedded Gen3.5+ GFX Core
	LVDS	LVDS: Single channel 18-bit LVDS up to WXGA 1366 x 768
	VGA	Intel Atom N450 Single Core up to 1400 x 1050 (SXGA) Intel Atom D510 Dual Core up to 2048 x 1536
Ethernet	Dual Display	CRT+LVDS
	Speed	10/100/1000 Mbps
	Controller	LAN1 Intel 82567V Giga LAN LAN2 Intel 82583V Giga LAN
Audio	Connector	RJ-45 on LAN1, LAN2
	Chipset	Realtek ALC888, High Definition Audio(HD), Line-in, Line out, Mic-in
WatchDog Timer		Output System reset, Programmable 1 – 255 sec
Storage	CompactFlash	Supports CompactFlash Card TYPE I/II (Primary Master IDE Channel)
	SATA	2
Rear I/O	Serial	1 (COM1 supports RS-232)
	Ethernet	2 (10/100/1000 Mbps)
	VGA	1
	USB	2
Internal I/O	USB	4 x USB 2.0 ports
	Serial	3 x COM ports COM3/COM4 supports RS-232 COM2 supports RS-232/422/485
	Parallel (LPT)	1
	KB/Mouse	1
	GPIO	8-bit GPIO
	SMBus	1
Expansion	Mini PCI Express	1
	MIO 160	1 (Optional by request)
Power	Power Type	AT/ATX
	Power Supply Voltage	AT: 5 V or 12 V, ATX: 5 V, 5 V sb (12 V is optional for LCD inverter and add on card) AT: 12 V, ATX: 12 V, 5 V sb
	Power Consumption (Typical)	PCM-9362NC-S6A1E: 5 V : 2.31 A
		PCM-9362N-S6A1E: 12 V : 0.87 A
		PCM-9362D-S6A1E: 12 V : 0.91 A
	Power Consumption (Max, test in HCT)	PCM-9362NC-S6A1E: 5 V : 2.36 A
PCM-9362N-S6A1E: 12 V : 1.01 A PCM-9362D-S6A1E: 12 V : 1.17 A		
Power Management	APM, ACPI	
Battery	Lithium 3 V/210 mAh	
Environment	Operational	0 – 60° C (32 – 140° F)
	Non-Operational	Operating: 0 – 60° C (32 – 140° F) (Operating humidity: 40° C @ 85% RH non-condensing) Non-Operating: -40° C – 85° C and 60° C @ 95% RH non-condensing
Physical Characteristics	Dimensions (L x W)	146 x 102 mm (5.7" x 4")
	Weight	0.85 kg (1.87 lb), weight of total package

## Board Diagram



## Ordering Information

Model	CPU	Power Input	CRT	LVDS	Giga LAN1	Giga LAN2	Audio	SATAII	USB 2.0	Mini-PCIe	CF	LPT	RS-232	RS-232/422/485	Thermal Solution	Operating Temperature
PCM-9362NC-S6A1E	Atom N450	5 V	1	1	Yes	Yes	HD	2	6	1	1	1	3	1	Passive	0 ~ 60° C
PCM-9362N-S6A1E	Atom N450	12 V	1	1	Yes	Yes	HD	2	6	1	1	1	3	1	Passive	0 ~ 60° C
PCM-9362D-S6A1E	Atom D510	12 V	1	1	Yes	Yes	HD	2	6	1	1	1	3	1	Active	0 ~ 60° C
PCM-9362NZ-1GS6A1E	Atom N450	12 V	1	1	Yes	Yes	HD	2	6	1	1	1	3	1	Passive	-20 ~ 80° C
PCM-9362NZ21GS6A1E	Atom N450	12 V	1	1	Yes	Yes	HD	2	6	1	1	1	3	1	Passive	-40 ~ 85° C

## Packing List

Part No.	Description	Quantity
	PCM-9362 SBC	
	Startup Manual	
	Utility CD	
9689000002	mini Jumper pack	x 1
1700000265	ATX power cable (PCM-9362NC series only)	x 1
1700006291	SATA cable	x 1
1703060191	PS/2 cable	x 1
1701140201	COM2 IDE D-SUB 20 cm cable	x 1
1703100121	USB 2 x 5P-2.0 12 cm W/BKT cable	x 2
1703100152	Audio cable	x 1
1700260250	LPT IDE 26P D-SUB 25 cm cable	x 1
1703150102	SATA 10 cm Power cable	x 1

## Optional Accessories

(MIO interface is optional by request)

Part No.	Description
MIO-6254	MIO module w/DVI, S-Video, Audio
MIO-6255	MIO module w/2 x Cardbus
MIO-6260	MIO module w/4 x USB, 2 x COM, 1 x LAN
1700016161	AT Power cable, 2 x 6P to 3 x 4P 10 cm
1700016141	AT power cable, 2 x 6P to 2 x 10P 10 cm
1960047470N001	Heat spreader(97 x 75 x 18.5 mm)

## Embedded OS/API

Embedded OS/API	Part No.	Description
Win XPE	2070009030	XPE WES2009 Luna Pier V4.0 ENG
	2070009031	XPE WES2009 Luna Pier V4.0 MUI24
WinCE 6.0 Pro	2070009693	CE 6.0 Pro PCM-9362 V1.3 ENG
Software API	205E362010	SUSI 3.0 SW API for PCM-9362 B: 20091117 XP