

# PCM-9362

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

Preliminary



## Features

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

### Software APIs:



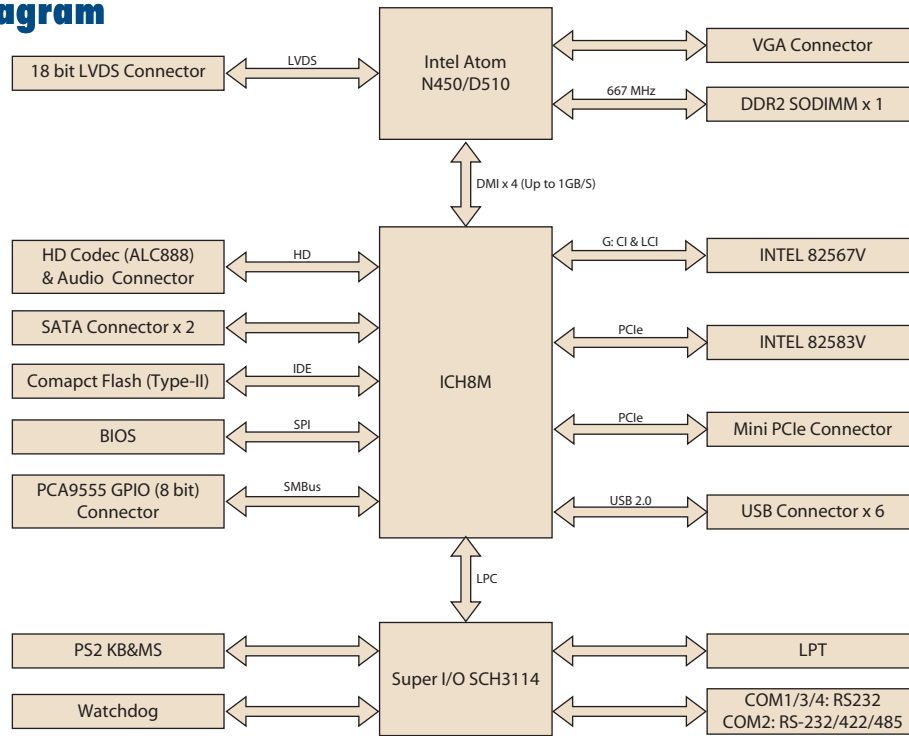
### Utilities:



## Specifications

Processor System	CPU	Intel® Atom™ N450 Single Core 1.67 GHz Processor Intel® Atom™ D510 Dual Core 1.67 GHz Processor
	Front Side Bus	667 MHz
	Frequency	1.67 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
	Chipset	Intel® Atom™ Processor N450/D510 1.67 GHz
	VRAM	Optimized Shared Memory Architecture up to 224 MB system memory
	Graphic 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
	CRT	Intel Atom N450 Single Core up to 1400 x 1050 (SXGA) Intel Atom D510 Dual Core up to 2048 x 1536
	Dual Display	CRT+LVDS
Ethernet	Speed	10/100/1000 Mbps
	Controller	LAN1 Intel 82567V Giga LAN LAN2 Intel 82583V Giga LAN
	Connector	RJ45 on LAN1, LAN2
Audio	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 (10/100/1000Mbps)
	CRT	1
	USB	2
Internal I/O	USB	4 x USB 2.0
	Serial	3 x COM COM3/COM4 supports RS-232 COM2 supports RS-232/422/485
	Parallel(LPT)	1
	KB/Mouse	1
	GPIO	8-bit GPIO
	I <sup>2</sup> C	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/220 mAH

## Board Diagram



## Specifications Cont.

Environment	Operation	0 – 60° C (32 – 140° F)
	Non-Operation	Operating: 0 – 60° C (32 – 140° F) (operation 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

## 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	3	1	1	Passive	0 – 60° C
PCM-9362D-S6A1E	Atom D510	12 V	1	1	Yes	Yes	HD	2	6	1	1	3	1	1	Active	0 – 60° C

## Packing List

Part No.	Description	Quantity
	PCM-9362 SBC	
	Startup Manual	
	Utility CD	
9689000002	mini Jumper pack	
1700000265	ATX Power Cable	
1700006291	SATA Cable	
1703060191	PS/2 cable	
1701140201	COM2 IDE D-SUB 20 cm cable	x1
1703100121	USB 2 x 5P-2.0 12 cm W/BKT cable	x1
1703100152	Audio Cable	
1700260250	LPT IDE 26P D-SUB 25 cm cable	x1
1703150102	SATA 10 cm Power cable	

## Optional Accessories

Part No.	Description
MIO-6251	MIO module w/2 x Mini PCI, Audio
MIO-6253	MIO module with 4 COM ports
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

## Embedded OS

	Part No.	Description
OS	Win XPE	2070009030: XPE WES2009 Luna Pier V4.0 ENG 2070009031: XPE WES2009 Luna Pier V4.0 MUI24
	SUSI	205E362010: SUSI 3.0 SW API for PCM-9362 B:20091117 XP