

PCM-9562

Intel® Atom™ N450/D510 EBX SBC with 3 LAN, 6 COM, 3 SATA, 8 USB 2.0, 2 Watch Dog

NEW



Features

- Embedded Intel® Atom™ processor N450 Single Core/D510 Dual Core 1.66 GHz + ICH8M
- Supports up to 3 Intel GbE Ethernet, 2 Watchdog timer support
- Design complies with UL60601 on LAN3 and COM6 port isolation
- Power off protection and Software I²C API support
- Supports embedded software APIs and Utilities

Software APIs:

- Watchdog
- I²C
- SMBus
- H/W Monitor
- Brightness
- GPIO
- Backlight On/Off

Utilities:

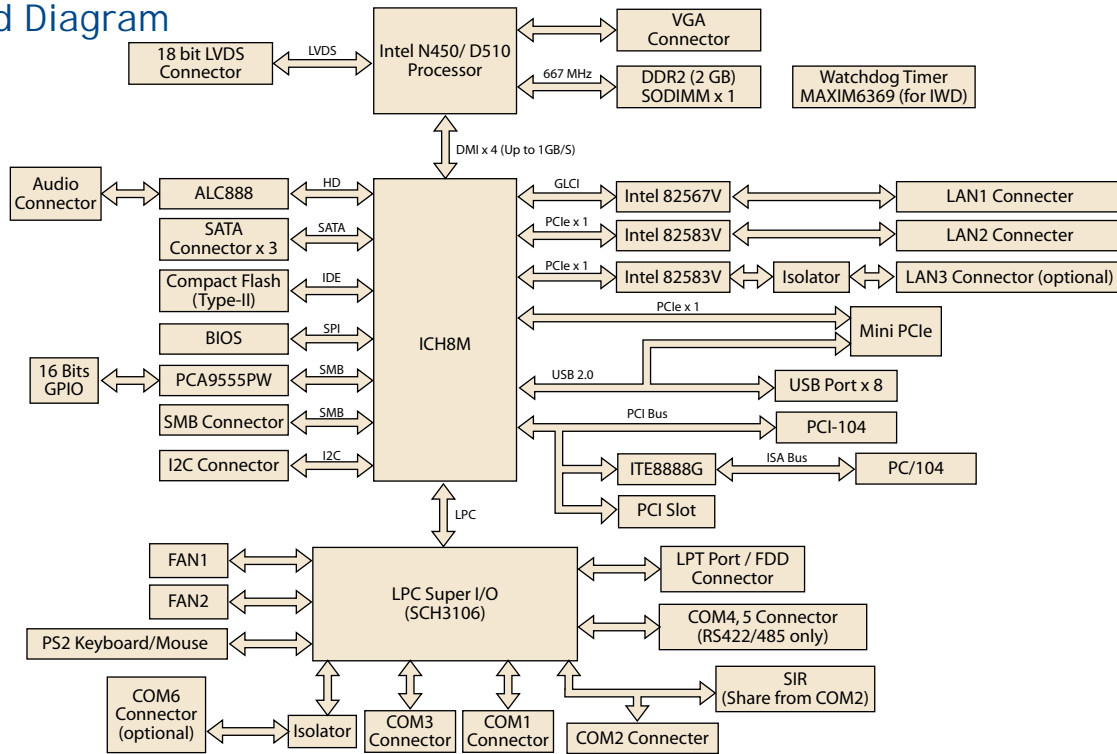
- BIOS Flash
- eSOS
- Monitoring
- Flash Lock
- Embedded Security ID



Specifications

Processor System	CPU	Intel Atom N450/D510 1.66 GHz
	Front Side Bus	667MHz
	Frequency	Atom N450/D510 1.66 GHz
	L2 Cache	512 KB/1 MB
	System Chipset	N450/D510 + ICH8M
Memory	BIOS	AMI 16 Mbit
	Technology	DDR2 667
	Max. Capacity	2 GB
Display	Socket	1 x 200-pin SODIMM
	Chipset	N450/D510
	VRAM	Optimized Shared Memory Architecture up to 224 MB
	Graphics Engine	Embedded Gen3.5+ GFX Core, HW MPEG2 decoder
	LVDS	Single channel 18-bit LVDS up to WXGA 1366 x 768
	VGA	N450: Up to SXGA 1400 x 1050 @ 60 Hz (SXGA) D510: up to 2048 x 1536 (QXGA)
	Dual Display	CRT+ LVDS
Ethernet	Interface	3 (RJ-45 connector through the cable and LAN3 is optional)
	Controller	LAN1 Intel 82567, LAN2 Intel 82583V, Optional LAN3 Intel 82583V (UL60601 Compliant) 10/100/1000 Mbps
	Connector	Box header
Audio	Chipset	ALC888 HD Codec, Speaker out, CD-input, Line-in, Line-out, Mic-in
	Amplifier	APA4863RI-TRG (Support)
WatchDog Timer	Output	System reset
	Interval	Watchdog timer1 (IWT): monitor the system status before OS is ready (programmable 10ms, disable, 1s, 60s) Watchdog timer2 (PWT): monitor the application status after OS is ready (programmable 1 - 255 sec/min)
Storage	CompactFlash	Card Type I, Type II
	SATA	3 SATA (Max. Data Transfer Rate 300 MB/s)
	Floppy	Share with LPT (Optional)
	SPI Flash	16 Mbit
Internal I/O	Serial	RS-232 x4 (optional COM6 is with isolation), RS-232/422/485 x2 (Default RS-422/485, RS-232 by optional request)
	Ethernet	Giga LAN x 3 (RJ-45 connector through the cable and LAN3 is optional)
	KB/Mouse	1
	CRT	1
	Reset Button	1
	USB	8 x USB 2.0
	Parallel (LPT)	1
	FDD	Share with LPT (Optional)
	GPIO	16-bit GPIO
	SMBUS	1
	I²C	1
Expansion	PC/104-Plus slot	1
	Mini PCI Express	1
	PCI Slot	1
Power	Power Type	AT / ATX (Both AT/ATX can support ACPI)
	Power Supply Voltage	ATX: 12V ±10%, 5VSB ±5% (5V stand-by power is only for auto power off function) AT: 12V ±10% only
	Power Consumption (Typical)	PCM-9562N-S6A1E: 10.8W (893 mA @ 12V, 8 mA @ 5 VSB) PCM-9562D-S6A1E: 13.6W (1130 mA @ 12V, 10 mA @ 5 VSB)
	Power Consumption (Max. test in HCT)	PCM-9562N-S6A1E: 13.9W (1159 mA @ 12V, 6 mA @ 5 VSB) PCM-9562D-S6A1E: 16.9W (1404 mA @ 12V, 8 mA @ 5 VSB)
Environment	Operating	0 - 60° C (32 - 140° F)
	Non-Operating	95% @ 60° C Relative Humidity
Physical Characteristics	Dimensions (L x W)	203 x 146 mm (8" x 5.75")
	Weight	0.85 kg (1.87 lb) (with Heatsink)

Board Diagram



Ordering Information

Model	CPU	CRT	LVDS	Giga LAN1	Giga LAN2	Giga LAN3 UL60601	HD Audio	USB 2.0	SATAII	RS-232	RS-422/485	PC/104-Plus	Mini PCIe	CF	Thermal	Operating Temperature
PCM-9562N-S6A1E	Atom N450	1	18-bit	1	1	Optional	Yes	8	3	3	2	Yes	1	1	Passive	0 - 60° C
PCM-9562D-S6A1E	Atom D510	1	18-bit	1	1	Optional	Yes	8	3	3	2	Yes	1	1	Active	0 - 60° C
PCM-9562NZ-1GS6A1E	Atom N450	1	18-bit	1	1	Optional	Yes	8	3	3	2	Yes	1	1	Passive	-20 - 80° C
PCM-9562Z2-1GS6A1E	Atom N450	1	18-bit	1	1	Optional	Yes	8	3	3	2	Yes	1	1	Passive	-40 - 85° C

* For PCM-9562 with 3 LAN and 6 COM sku, pls contact with field sales rep. Minimum Order quantity is required.

(PCM-9562 has 3 LAN and 6 COM sku with LAN3 and COM6 designed in for UL60601.)

* Wide temperature will use 1960002379 (50 x 50 x 30 mm) heatsink instead of 1960020569S000 (50 x 50 x 10mm)

Packing List

Part No.	Description	Quantity
	PCM-9562 SBC	1
9689000002	Mini Jumper Pack	1
2006956200	Startup Manual	1
2066956200	Utility CD	1
1700015741	ATX 5VSB cable	1

Optional Accessories

Part No.	Description
PCM-10586-9562E	Wiring kit for PCM-9562
1703100260	USB cable
CF-HDD-ADP	CompactFlash 50-pin to IDE 44-pin adapter
170304015K	AT cable 4P x 2/4200-H-4P 15 cm

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
Software API	205E956000	SUSI 3.0 SW API for PCM-9562 B:20091009 XP

