

# SOM-7562

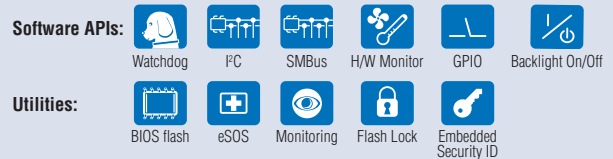
## Intel® Atom N450 COM-Ultra CPU Module

Preliminary



### Features

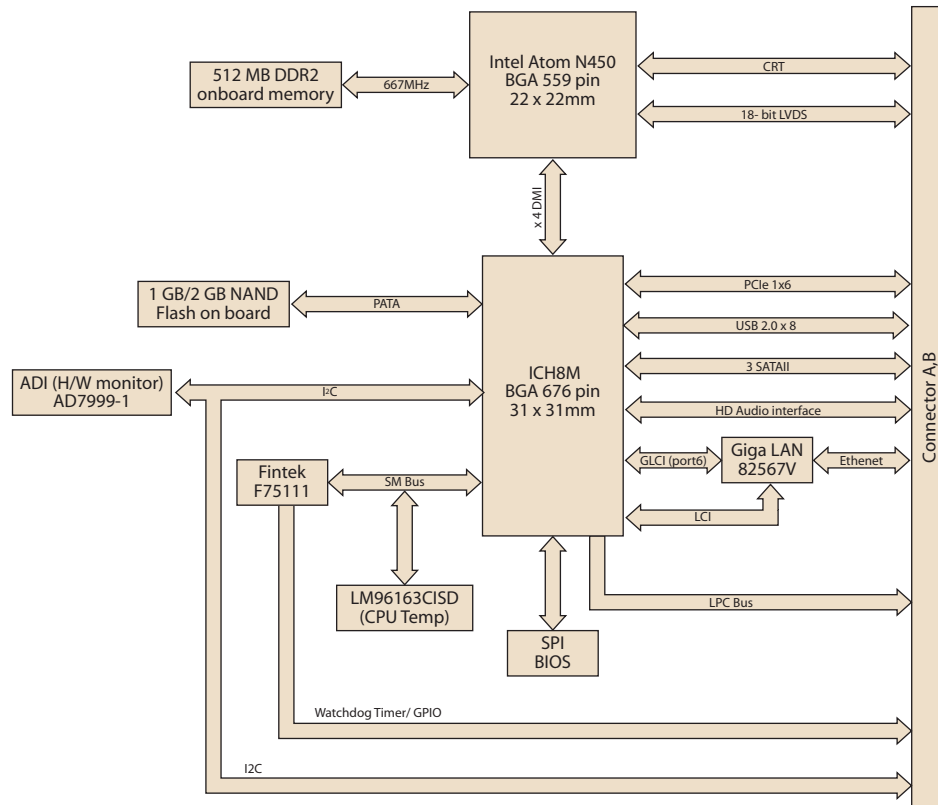
- Embedded Intel® Atom N450 1.67 GHz processor + ICH8M
- Intel Gen 3.5 DX9, MPEG2 Decode in HW, supports 18-bit LVDS, VGA
- Support 512MB on-board memory and 1/2 GB on-board Flash
- Support 5 PCIe x 1, LPC, 3 SATAII, 8 USB 2.0, GbE
- Support embedded software APIs and Utilities



### Specifications

Form Factor		COM-Ultra, Module Pin-out Type I
Processor System	CPU	Intel Atom N450 1.67 GHz
	L2 Cache	512 KB
	System Chipset	ICH8M
	BIOS	AMI 16 Mbit Flash BIOS
Memory	Technology	DDR2 667 MHz
	Max. Capacity	Onboard 512MB, up to 1 GB
	Socket	N/A
Flash	Capacity	1 GB/2 GB Flash onboard
Display	Chipset	Embedded Gen3.5+ GFX Core
	Graphic Engine	Intel Gen 3.5 DX9, MPEG2 Decode in HW
	LVDS	Single channel 18-bit LVDS, Max resolution 1366 x 768 (WXGA)
	VGA	Support max. 1400 x 1050 @ 60 Hz (SXGA)
	DVI	N/A
	TV Out	N/A
	SDVO	N/A
	Dual Display	CRT + LVDS
Ethernet	Chipset	Intel 82567V Gigabit Ethernet
	Speed	10/100/1000Base-T
WatchDog Timer		256 levels timer interval, from 0 to 255 sec or min setup by software, jumperless selection, generates system reset
Expansion		LPC, 5 PCIe x 1 (1 PCIe x 4 and 1 PCIe x 2 option)
I/O	PATA	N/A
	SATA	3 x SATAII (300 MB/s)
	USB	8 x USB 2.0
	Audio	High definition audio interface
	GPIO	8-bit GPIO
Power	Power Type	ATX, AT
	Power Supply Voltage	5V – 14V wide range (5V standby optional for ATX function)
	Power Consumption (Typical)	+12 V @ 0.57 A
	Power Consumption (Max, test in HCT)	+12 V @ 0.7 A
Environment	Operating Temperature	0 – 60° C (32 – 140° F)
	Operation Humidity	0% – 90% relative humidity, non-condensing
Mechanical	Dimension	84 x 55 mm (3.3" x 2.17")

## Board Diagram



## Ordering Information

Part No.	CPU	L2 Cache	Chipset	Onboard Memory	Onboard Flash	LVDS	VGA	Giga LAN	HD Audio	PCIe x 4	PCIe x 1	USB 2.0	SATA	LPC	SMBUS	Wide range Power	ATX Power	AT Power	Thermal Solution	Operation Temp.
SOM-7562F1-S6A1E	Intel Atom N450	512K L2	Intel Pineview	512 MB	1 GB	18-bit	V	1	V	Option	5	8	3 x SATAII	1	1	+5V--+14V	V	V	Passive	0 ~ 60 °C
SOM-7562F2-S6A1E	Intel Atom N450	512K L2	Intel Pineview	512 MB	2 GB	18-bit	V	1	V	Option	5	8	3 x SATAII	1	1	+5V--+14V	V	V	Passive	0 ~ 60 °C

## Development Board

Part No.	Description
SOM-DB5700G-00A2E	Development Board for COM-Express with GLAN

## Packing List

Part No.	Description	Quantity
	SOM-7562 CPU Module	1
	Utility CD	1
	Heatspreader	1