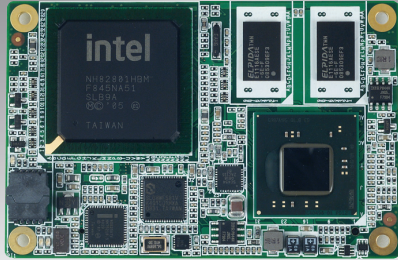


# SOM-7562

## Intel® Atom™ Processor N450 COM-Ultra Module



### Features

- Embedded Intel® Atom™ Processor N450 1.66 GHz + ICH8M
- Intel Gen 3.5 DX9, MPEG2 Decodes in HW, supports 18-bit LVDS, VGA
- Supports 512MB on-board memory and 1GB/2GB on-board Flash
- Supports 5 PCIe x1, LPC, 3 SATAII, 8 USB 2.0, GbE
- Supports embedded software APIs and Utilities

**Software APIs:**

- Watchdog
- PC
- SMBus
- H/W Monitor
- GPIO
- Backlight On/Off

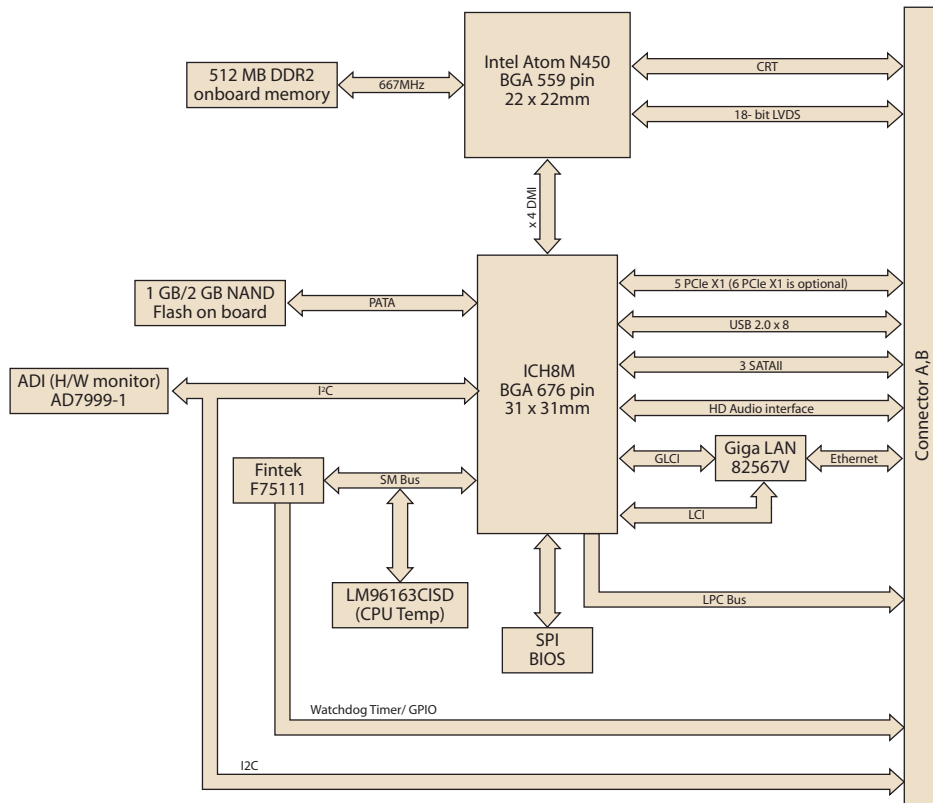
**Utilities:**

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

### Specifications

Form Factor		COM-Ultra Module, Type I Pin-out
Processor System	CPU	Intel Atom Processor N450 1.66 GHz
	L2 Cache	512 KB
	System Chipset	ICH8M
	BIOS	AMI 16 Mbit Flash BIOS
Memory	Technology	DDR2 667 MHz memory only
	Max. Capacity	Onboard 512 MB
	Socket	-
Flash	Capacity	1 GB/ 2 GB Flash onboard
Display	Chipset	Embedded Gen3.5+ GFX Core
	Graphics Engine	Intel Gen 3.5 DX9, MPEG2 Decode in HW
	LVDS	18-bit single channel LVDS
	VGA	Supports max. 1400 x 1050 @ 60 Hz
	DVI	-
	TV Out	-
	SDVO	-
	Dual Display	CRT + LVDS
Ethernet	Chipset	Intel 82567V Gigabit Ethernet
	Speed	10/100/1000 Mbps
WatchDog Timer		256 level timer interval, from 0 to 255 sec or min setup by software, jumperless selection, generates system reset
Expansion		LPC, 5 PCIe x1 (1 PCIe x4 or 1 PCIe x2 option)
I/O	PATA	-
	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	12 V (5 VSB needs for ATX power mode), wide range voltage support by project base
	Power Consumption (Typical)	+12 V @ 0.6 A
	Power Consumption (Max, test in HCT)	+12 V @ 0.7 A
Environment	Operating Temperature	0 ~ 60° C (32 ~ 140° F)
	Operating Humidity	0% ~ 90% relative humidity, non-condensing
Mechanical	Dimensions	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 II	LPC	SMBUS	Wide range Power	ATX Power	AT Power	Thermal Solution	Operating Temp.
SOM-7562F1-S6A1E	Intel Atom N450	512 KB	ICH8M	512 MB	1 GB	18-bit	Yes	1	Yes	optional	5	8	3	1	1	+5V~+14V	Yes	Yes	Passive	0 ~ 60 °C
SOM-7562F2-S6A1E	Intel Atom N450	512 KB	ICH8M	512 MB	2 GB	18-bit	Yes	1	Yes	optional	5	8	3	1	1	+5V~+14V	Yes	Yes	Passive	0 ~ 60 °C

### Development Board

Part No.	Description
SOM-DB5700G-U0A2E	Development Board for COM-Ultra Modules with GLAN

### Packing List

Part No.	Description	Quantity
-	SOM-7562 CPU Module	1
-	Utility CD	1
1960047108N001	Heatspreader	1

### Optional Accessories

Part No.	Description
1960050950N001	Semi-Heatsink 84 x 55 x 34 mm

### Embedded OS

OS	Part No.	Description
Win XPE 2008	2070009031	XPE WES2009 Lu- Pier V4.0 MUI24