

SOM-6761

Intel® Atom™ N270 COM-Micro CPU Module

NEW



Features

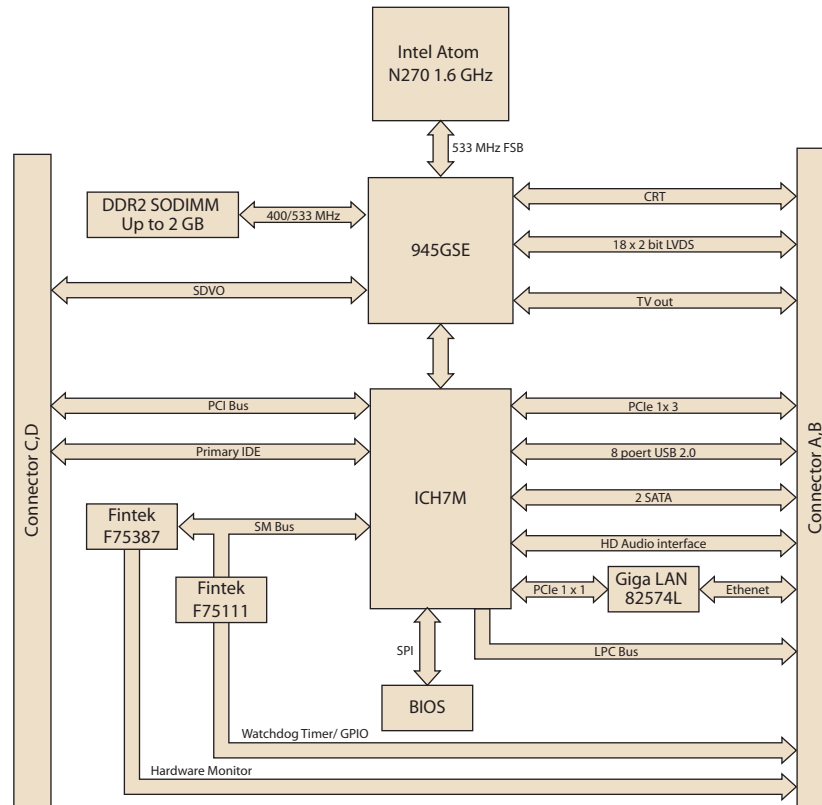
- Embedded Intel® Atom™ N270 1.6 GHz processor with low power consumption
- Intel Atom N270+ 945GSE+ ICH7M
- Intel GMA950, Microsoft DirectX 9.1
- Supports multiple displays: VGA, LVDS, SDVO, TV out
- Intel 10/100/1000 Mbps LAN
- Supports 3 PCIe x 1 or 1 PCIe x 4, 4 PCI devices
- Supports 2 SATA ports, 8 USB2.0 ports



Specifications

Form Factor		COM-Micro, Module Pin-out Type II
Processor System	CPU	Embedded Intel ATOM N270 1.6 GHz processor
	Front Side Bus	533 MHz FSB
	System Chipset	Intel 945GSE/ ICH7M
	BIOS	AWARD 8 Mbit Flash BIOS
Memory	Technology	DDR2 400/533 MHz
	Max. Capacity	up to 2 GB
	Socket	1 x 200-pin SODIMM socket
Display	Chipset	Intel 945GSE
	VRAM	DVMT 3.0 supports up to 224 MB
	Graphics Engine	Intel GMA950, Microsoft DirectX 9.1
	LCD	36-bit LVDS
	VGA	up to 2048 x 1536
	TV Out	Supports NTSC/PAL, S-Video and Composite Output interfaces
	SDVO	1 SDVO Port
	Dual Display	CRT + LCD, TV out + LCD, TV out + CRT (Note: SDVO function is supported by customized BIOS)
Ethernet	Chipset	Intel 82574L Gigabit Ethernet
	Speed	10/100/1000 Mbps
WatchDog Timer		256 timer intervals, from 0 to 255 sec or min setup by software, jumperless selection, generates system reset
Expansion		LPC, SMBUS, 3 PCIe x 1 or 1 PCIe x 4, 4 PCI master
I/O	PATA	1 x EIDE (UDMA 100)
	SATA	2 x SATA, data transfer rates up to 150 MB/s
	USB	8 x USB 2.0
	Audio	AC97, High definition audio interface
	GPIO	8-bit GPIO
Power	Power Type	ATX, AT
	Power Supply Voltage	+12 V, and +5 VSB for ATX, +12 V for AT
	Power Consumption (Typical)	Typical: (1 GB DDRII 533) +12 V @ 0.62 A
	Power Consumption (Max, test in HCT)	Max: (1 GB DDRII 533) +12 V @ 0.9 A
Environment	Operating Temperature	0 ~ 60° C (32 ~ 140° F)
	Operating Humidity	0% ~ 90% relative humidity, non-condensing
Mechanical	Dimensions	95 x 95 mm (3.74" x 3.74")

Board Diagram



Ordering Information

Part No.	CPU	L2 Cache	Chipset	LVDS	VGA	SDVO	TV out	Giga LAN	HD Audio	PCIe	PCI	USB 2.0	SATA	LPC	SMBUS	ATX Power	AT Power	Thermal Solution	Operating Temp.
SOM-6761FG-S6A1E	ATOM N270 1.6 GHz	512K L2	945GSE	36-bit	Yes	1	Yes	1	Yes	See Note 1	4	8	2	1	1	Yes	Yes	Passive	0 ~ 60° C
SOM-6761Z-S6A1E	ATOM N270 1.6 GHz	512K L2	945GSE	36-bit	Yes	1	Yes	1	Yes	See Note 1	4	8	2	1	1	Yes	Yes	Passive	-20 ~ 80° C

Note 1: Supports 1 PCIe x4 or 3 PCIe x1. Preserve 1 PCIe x4 circuit if no need to use PCIe Giga LAN (BOM option, either one, default PCIe x1 for Giga LAN and 3 PCIe x1)

Development Board

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

Packing List

Part No.	Description	Quantity
	SOM-6761 CPU Module	1
	Utility CD	1
	Heatspreader	1