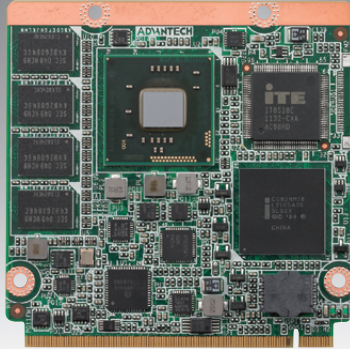


# SOM-3565

Intel® Atom™ Processor N2600  
Qseven CPU Module

Preliminary



iManager susiAccess CE FCC

## Features

- Embedded Intel® Atom™ Processor N2600 + NM10
- Intel Gfx support DX9 and OpenGL 3.0
- Supports 18 bit LVDS
- Supports up to DDR3 2GB onboard memory
- Support 3 PCIe x1, 1 LPC, 2 SATAII, 8 USB2.0
- Supports iManager, SUSIAccess and Embedded Software APIs

**Software APIs:**

- Watchdog
- IPC
- SMBus
- H/W Monitor
- GPIO
- Brightness Control

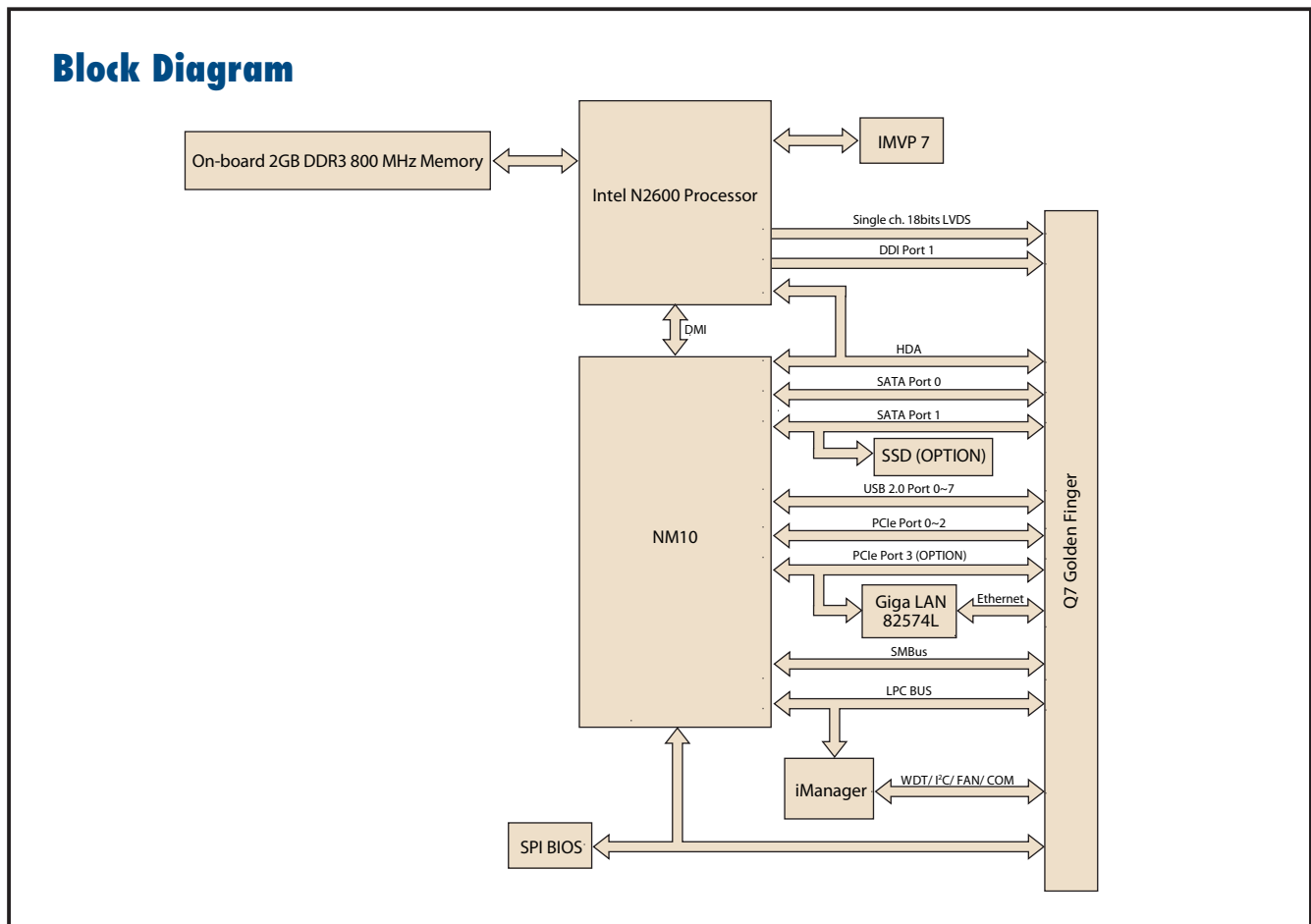
**Utilities:**

- BIOS flash
- Monitoring
- Embedded Security ID

## Specifications

Form Factor		QSeven
Processor System	CPU	Intel Atom Processor N2600 1.6 GHz, 1 MB L2 Cache
	System Chipset	NM10
	BIOS	AMI 16 Mbit Flash BIOS
Memory	Technology	Support DDR3 800 MHz
	Max. Capacity	2 GB on board memory
Display	Chipset	Intel Gfx integrated in Atom Processor
	Graphic Engine	Intel Gfx 400 MHz for N2600, supports DX9, OpenGL 3.0, MPEG2/VC1/H.264 HW Decoder
	LVDS	18-bit up to 1366x768 for N2600
	DDI	1 port for DisplayPort/ HDMI/ DVI HDMI 1920 x 1200 DVI 1920 x 1200 DisplayPort 1600 x 1200
	Dual Display	LVDS + DP/HDMI/DVI
Ethernet	Chipset	Intel 82574L Gigabit Ethernet
	Speed	10/100/1000 Mbps
WatchDog Timer		65536 level timer interval, from 0-65535 sec, multi-level, multi-option watchdog timer
Expansion		3 PCIe x1 (Option for 4 PCIe x1), LPC, SMBus, I2C Bus
I/O	SATA	2 SATAII (300 MB/s) (option for 1 SATAII and 1 on-board SSD)
	USB	8 USB 2.0
	Audio	High definition audio interface
	SDIO	8-bit
Power	Power Type	ATX, AT
	Power Supply Voltage	5V/ 5V standby
Environment	Operating Temperature	0 ~ 60° C (32 ~ 140° F)
	Operating Humidity	0% ~ 90% relative humidity, non-condensing
Mechanical	Dimensions	70 x 70 mm (2.75" x 2.75")

### Block Diagram



### Ordering Information

Part No.	CPU	L2 Cache	PCH	LVDS	RAM	SSD	DDI	PCIe	Giga LAN	HD Audio	USB2.0	SATAII	LPC	I <sup>2</sup> C Bus	Power	Thermal Solution	Operating Temp.
SOM-3565M0-S6A1E	N2600 1.6 GHz	1 MB	NM10	18-bit	2GB	option	1	3	1	1	8	2	1	1	ATX/AT	Passive	0 - 60° C

Note: Passive = fanless; Active = with fan

### Development Board

Part No.	Description
SOM-DB3500G-00A1E	Qseven Development Board

### Packing List

Part Number	Description	Quantity
SOM-3565M0-S6A1E	CPU module	1
1960057322N001	Heatspreader	1