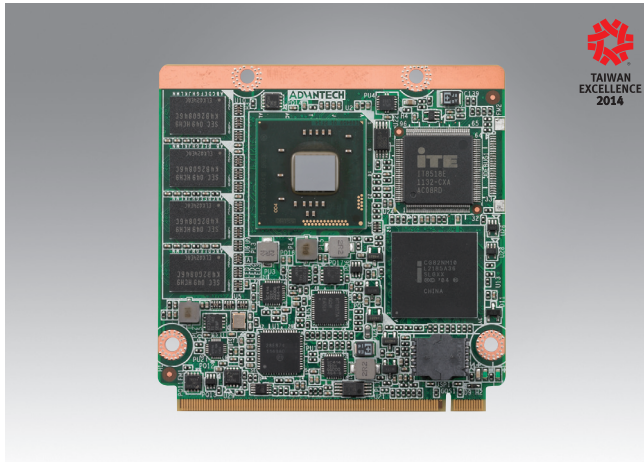


SOM-3565

Intel® Atom™ Processor N2600 Qseven CPU Module



iManager susiAccess

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



PC



SMBus



H/W Monitor



GPIO



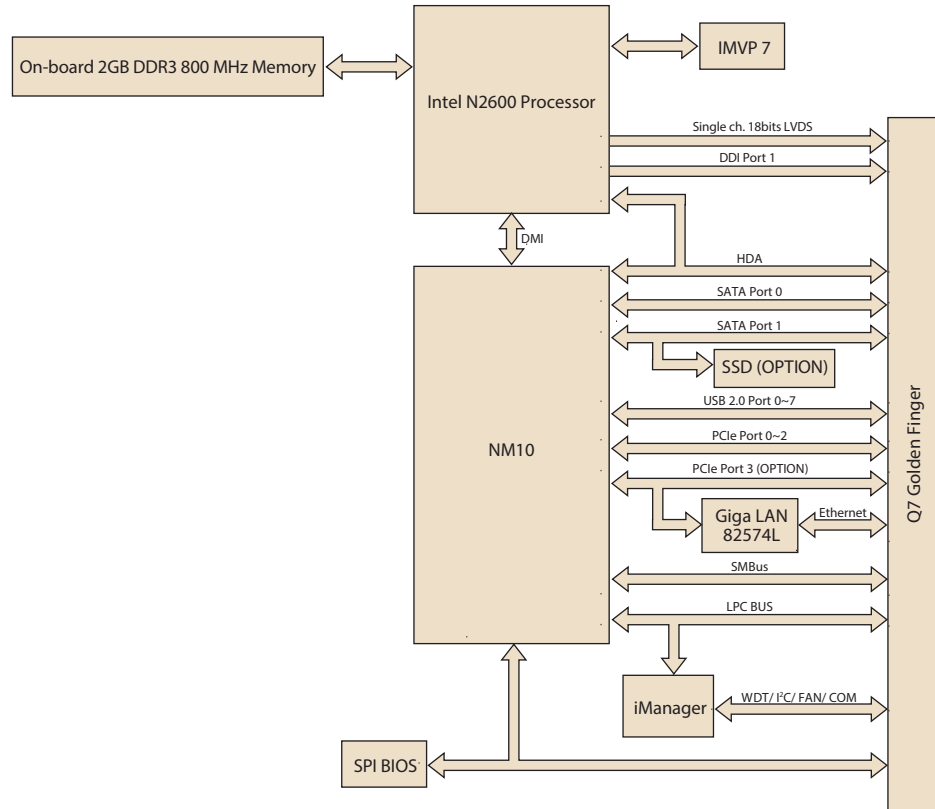
Brightness
Control

Specifications

Form Factor		QSeven R1.2
Processor System	CPU	Intel Atom Processor N2600 1.6 GHz, 1 MB L2 Cache
	System Chipset	NM10
	BIOS	AMI EFI 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
	DDI	1 port for DisplayPort/ HDMI/ DVI
		HDMI 1920 x 1200
		DVI 1920 x 1200
Ethernet	Dual Display	DisplayPort 1600 x 1200
		LVDS + DP/HDMI/DVI
	Chipset	Intel 82574L Gigabit Ethernet
WatchDog Timer	Speed	10/100/1000 Mbps
		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
	GPIO*	8 Bits
Power	Power Type	ATX, AT
	Power Supply Voltage	5V/ 5V standby
	Power Consumption (Max.)	+5 V @ 1.6 A
	Power Consumption (Idle)	+5 V @ 0.99 A
Environment	Operating Temperature	0 ~ 60° C (32 ~ 140° F)
	Humidity	Operating: 40° C @ 95% relative humidity, non-condensing Storage: 60° C @ 95%relative humidity, non-condensing
Mechanical	Dimensions	70 x 70 mm (2.75" x 2.75")

* GPIO is not in Q7 specification, this is an additional function in SOM-3565.

Block Diagram



Ordering Information

Part No.	CPU	L2 Cache	PCH	LVDS	RAM	SSD	DDI	PCIe	Giga LAN	HD Audio	USB2.0	SATAII	LPC	I ² C Bus	Power	Thermal Solution	Operating Temp.
SOM-3565M0-S6A1E	N2600 1.6 GHz	1 MB	NM10	18-bit	2GB	-	1	3	1	1	8	2	1	1	ATX/AT	Passive	0 ~ 60° C
SOM-3565M4-S6A1E	N2600 1.6 GHz	1 MB	NM10	18-bit	2GB	4GB	1	3	1	1	8	1	1	1	ATX/AT	Passive	0 ~ 60° C
SOM-3565M0Z-S6A1E	N2600 1.6 GHz	1 MB	NM10	18-bit	2GB	-	1	3	1	1	8	2	1	1	ATX/AT	Passive	-20 ~ 80° C
SOM-3565M0Z2-S6A1E	N2600 1.6 GHz	1 MB	NM10	18-bit	2GB	-	1	3	1	1	8	2	1	1	ATX/AT	Passive	-40 ~ 85° C

Note: Passive = fanless; Active = with fan

Development Board

Part Number	Description
SOM-DB3500G-00A1E	Qseven Development Board

Packing List

Part Number	Description	Quantity
	CPU module	1
1960057322N001	Heatspreader for regular temp sku	1
1960059823N001	Heatspreader for extended temp sku	

Embedded OS

OS	Part No.	Description
WES7E	2070011754	WES7E SP1 32-bits SOM-3565 V5.1.4 ENG

Optional Accessories

Part Number	Description
1960058145N001	Heatsink I-Cedarview-M-12W 70x63x13.2-SC
96LEDK-A084SV45NB2	8.4" LED PANEL 450N 800X600(G) G084SN05 V9
96LEDK-C150XG40NG1	15" LED PANEL 400N 1024X768(G) G150XGE-L04