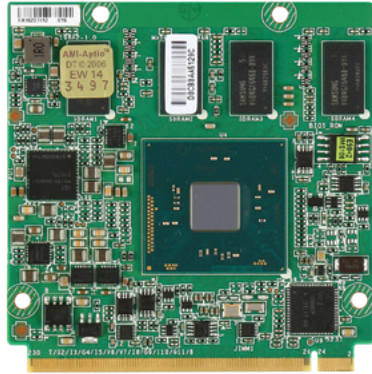


# MS-98H2

Qseven R2.0 CPU Module with Intel® Braswell N3000 Series SoC Platform for Low-Power Solution



## Features

- Intel® Braswell Series SoC
- DDR3L 1600 MHz onboard memory up to 8GB
- Triple independent displays: eDP, 2DDI
- GbE LAN
- 3 PCIe x1 (Gen 2)
- 2 SATA 3.0 for storage
- 2 USB 3.2 Gen 1, 4 USB 2.0, UART
- Compliant with Qseven specifications revision 2.0

## Ordering Information

Part Number	Description
919-98H2-004	MS-98H2 12 Qseven module board Intel Braswell N3710 SoC, Onboard 4GB DDR3L-1600MHz, 1*GbE LAN, 3*PCIe x1, 2*SATA, 2*USB 3.0, 4*USB 2.0, 1*SD, 1*UART, 1*SMBus, 1*12C
919-98H2-005	MS-98H2 12 Qseven module board Intel Braswell N3160 SoC, Onboard 4GB DDR3L-1600MHz, 1*GbE LAN, 3*PCIe x1, 2*SATA, 2*USB 3.0, 4*USB 2.0, 1*SD, 1*UART, 1*SMBus, 1*12C

## Packing List

Part Number	Description	Quantity
E31-0804880-K08	Standard heatspreader for Qseven module	1
G71-SEDC154-X03/N56	DRIVER CD	1

## Specifications

<b>Processor</b>	CPU	Intel® Pentium® processor N3710, QC, 6W Intel® Celeron® processor N3160, QC, 6W
	Frequency	N3710, 1.6 GHz up to 2.56 GHz N3160, 1.6 GHz up to 2.24GHz
	L2 Cache	2MB
	CPU Type	BGA
	Chipset	Integrated in SoC
<b>Memory</b>	BIOS	AMI
	Technology	Dual-channel DDR3L 1600MHz
	Max. Capacity	Up to 8GB
<b>Display</b>	Socket	Onboard
	Controller	Intel® HD Graphics
	Graphic Memory	Depends on CPU
	LVDS	N/A
	eDP	1
	HDMI	1
	DisplayPort	1
	Multiple Display	3 independent displays
	Display Interface	eDP1.4 up to 2560 x 1600 @60Hz 2 x DDI: HDMI up to 2560 x 1600 @60Hz; up to 3840 x 2160 @30Hz; DP1.1a up to 2560 x 1600 @60Hz; up to 3840 x 2160 @30Hz"
	Ethernet	Controller
Audio	Controller	Support HD audio interface to carrier board
Super I/O	Controller	N/A
<b>H/W Monitor</b>	Watchdog Timer	256-level Watchdog Timer
	Smart Fan	Yes
TPM	Controller	N/A
<b>I/O Interface</b>	USB	4 x USB 2.0 (to carrier board) 2 x USB 3.2 Gen 1 (to carrier board)
	Serial	1 x UART port (to carrier board)
<b>Expansion Slot</b>	PCIe x1	3 x PCI Express GEN. 2.0 lanes
	M.2	N/A
<b>Storage</b>	SATA	2 x SATA 3.0
	CompactFlash	N/A
<b>Power Supply</b>	DC	+5 V and +5 VSB (standby power)
	ATX	N/A
<b>Environment</b>	Operating Temperature	-10 ~ 60°C
	Operating Humidity	10 ~ 90%, non-condensing
	Storage Temperature	-20 ~ 80°C
<b>Form Factor</b>	Storage Humidity	10 ~ 90%, non-condensing
	Dimensions (W x D x H)	70 x 70mm (Qseven CPU module)
	Weight	0.23 Kg
Certification	EMC	FCC, CE, RCM, VCCI, BSMI
<b>Software Platform</b>	OS Support	Windows 7 (32/64-bit) Windows 8.1 (64-bit) Windows 10 (64-bit) Linux Fedora 22 (by request) Linux Ubuntu 15.04 (by request)