

MS-98H2

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



Features

- Intel® Pentium®/Celeron® Processor N3000 Series SoC
- Onboard DDR3L 1600 up to 8GB
- Support Intel® GbE LAN
- 3 DDI ports for eDP, DP, and HDMI
- 4 USB 2.0, 2 USB 3.0, and 3 PCIe x1
- 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*I2C
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*I2C

Packing List

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

Specifications

Processor	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
Memory	BIOS	AMI
	Technology	Dual-channel DDR3L 1600MHz
	Max. Capacity	Up to 8GB
Display	Socket	Onboard
	Controller	Intel® HD Graphics
	Graphic Memory	Shared system memory up to 1.7 GB SDRAM
	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
H/W Monitor	Watchdog Timer	256-level Watchdog Timer
	Smart Fan	Yes
TPM	Controller	N/A
I/O Interface	USB	4 x USB 2.0 (to carrier board) 2 x USB 3.0 (to carrier board)
	Serial	1 x UART port (to carrier board)
Expansion Slot	PCIe x1	3 x PCI Express GEN. 2.0 lanes
	M.2	N/A
Storage	SATA	2 x SATA 3.0
	CompactFlash	N/A
Power Supply	DC	+5 V and +5 VSB (standby power)
	ATX	N/A
Environment	Operating Temperature	-10 ~ 60°C
	Operating Humidity	10 ~ 90%, non-condensing
	Storage Temperature	-20 ~ 80°C
Form Factor	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
Software Platform	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)