



SPEC SHEET

SYNCUSTECH

EMB - QM87

Intel® Core™ i7/i5/i3/Mobile Processor (Haswell)

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EMB-QM87 Mini ITX is an Intel® Haswell-based platform, engineered to overcome harsh shock and vibration, as well as other rugged environmental factors. The product is designed for long-term use, which allows it to be implemented in various applications such as industrial computers, vision systems, gaming systems, digital signage players, POS, and medical computers. Based on the Intel® QM87 chipset, EMB-QM87 uses Non ECC modules and supports DDR3 RAM up to 16 GB. Installed with up to 3.4Ghz Quad-Core and 4th Generation Intel® Core™ i3/i5/i7 Processors, the board is capable of responding to high-performance demands.



Features

- 4th Generation Intel® i7/i5/i3/Celeron processors[Haswell]
- 2x DDR3L-1600 SO-DIMM up to 2x8GB
- 6xUSB 2.0, 2xUSB 3.0
- 6xRS232 (1x RS422/485 included)
- Display: LVDS, HDMI, VGA
- 1 x PCIe(x16), 1x MPCIE / mSATA selectable
- 2 x GbE LAN

Module	Function	Descriptions
Processor System	CPU	Intel® Core™ i7-4860EQ, Intel® Core™ i7-4850EQ, Intel® Core™ i7-4700EQ, Intel® Core™ i5-4400E, Intel® Core™ i5-4402E, Intel® Core™ i3-4100E, Intel® Core™ i3-4102E, Intel® Celeron® 2000E, Intel® Celeron® 2002E
	Core Number	Up to 4
	L3 Cache	Dependent upon Processor
	Chipset	Intel® Mobile QM87
	BIOS	AMI UEFI

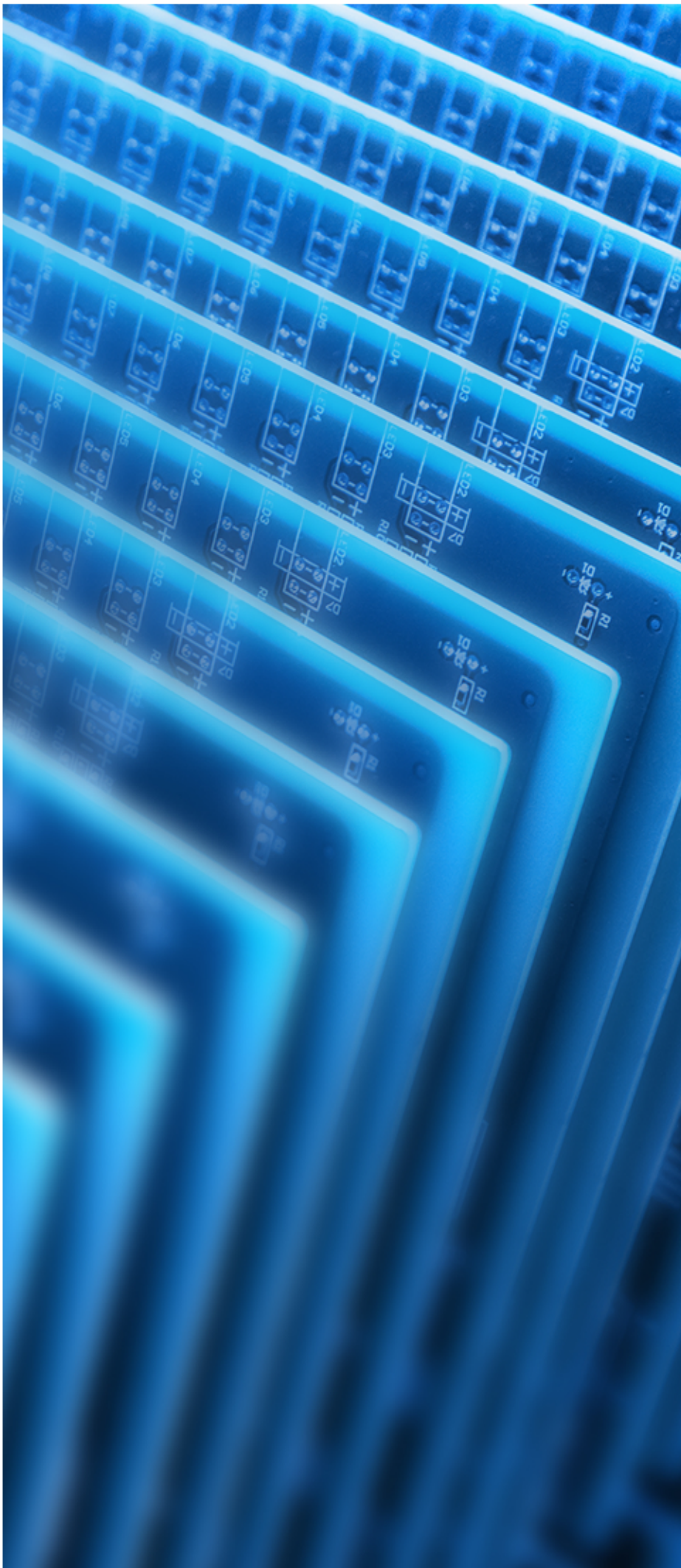


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Module	Function	Descriptions
Memory	Technology	2 x DDR3L-1600 SO-DIMM
	Max. Capacity	Up to 2 x 8GB
	Socket	2 x 240-pin SO-DIMM
Graphics	Controller	Integrated Intel® HD Graphics 4600
	VGA/HDMI/LVDS	Analog RGB Dual channel 24-bit, max resolution 1920 x 1200 3 x DDI ports
	Graphics Engine	Support DX11.1, OpenGL3.2, Full MPEG2, VC1, AVC Decode
Ethernet	Interface	PCI-e 10/100/1000 Mbps ethernet
	Controller	1 x Intel® i217LM PCIe GbE PHY
		1 x Intel® 82583 PCIe GbE
Audio	HD Codec	Realtek ALC269 HD Audio codec
Storage	SATA II	2 x ports upto 600MB/s HDD transfer rate
	SATA III	2 x ports upto 600MB/s HDD transfer rate
Expansion	PCI-e x16	1 x PCIe x16 Generation 3 lane
	mPCI-e x1	1 x MPCIE / mSATA selectable
Rear I/O	Serial	1 x RS232
	VGA	1 x 15P VGA
	HDMI	1 x 19P Type A
	DVI-D	1 x 24P Type A
	Ethernet	2 x RJ45
	USB	1 x 2 USB 3.0 ports, 1 x 2 USB 2.0 ports,
	Audio	1 x audio Jack [Line-out,Line-in, Mic]
	PS2	1 x MINI DIN
Internal I/O	Serial	5 x RS232 Header, 1 x 422/485 Connector
	USB	2 x 2 USB 2.0/1.1 Header
	LPT	1 x 26P LPT Header
	SATA	2 x SATA II
	GPIO	1 x 8-bit GPIO Header
	LVDS	1 x 40P 18/24 LVDS connector
	TPM	1 x 19P TPM Header
	Fan	1 x CPU Fan Connector 1 x System Fan connector





This motherboard has been developed as a reference product and can be customized to your needs.

To ask for a customized solution, please contact our team at:

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