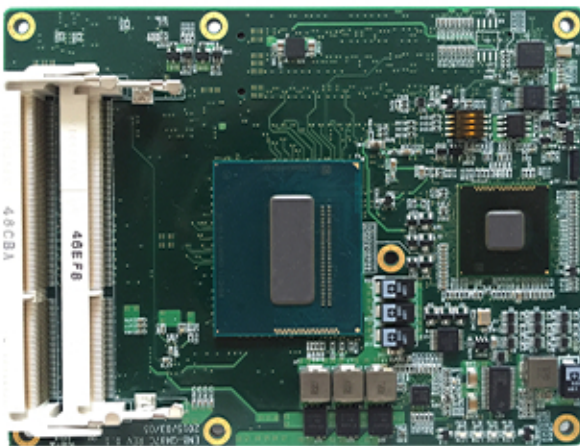# SYNCUSTECH

EMB - QM87 COM Express

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

EMB - QM87 COM Express

EMB-QM87 COM Express is an Intel® Haswell-based platform, engineered to overcome harsh shock and vibration, as well as other rugged environmental factors. COM Express, a computer-on-module (COM) form factor, is a highly integrated and compact Pin-out Type6 (125mm x 95mm). 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. With the Intel® QM87 chipset, the EMB-QM87 COM Express is capable of responding to high-performance demands.

Features

- Intel® Core™ i7/i5/i3
  Intel® Celeron® 2000E/2002E

- 2 x DDR3L-1600 SO-DIMM up to 2 x 8 GB

- Intel® Mobile QM87 (Core™ i5/i3)

- 8 x USB 2.0 ports, 4 x USB 3.0 ports

- COM Express Basic, Type 6

- 2 x SATA II ports, 2 x SATA III ports

Module	Function	Descriptions
Processor System	CPU	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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Intel® Core™ i7/i5/i3/Mobile Processor (Haswell)

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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	Intel® HD Graphics Gen 7.5
	Display Interface	Analog RGB Dual channel 18/24-bit, max resolution 1920 x 1200 @60HZ 3 x DDI ports
	Graphics Engine	Support DX11.1, OpenGL3.2, Full MPEG2, VC1, AVC Decode
I/O	Expansion	1 x PCIe x 16 Generation 3 lanes 8 x PCIe x 1 Generation 2 lanes 1 x LPC 1 x i2C 1 x WDT 1 x SMBus
	Storage	SATA II ports, 300MB/s HDD transfer rate SATA III ports, 600MB/s HDD transfer rate
	Ethernet	1 x Intel®I217lm PCLe GbE PHY
	USB	8 x USB 2.0 ports 4 x USB 3.0 ports
	Audio	HD Audio link
	DIO	1 x 8-bit Programmable GPIO
Power	Input Power	+12V, +5VSB Power Input
	Power Consumtion	6A @12V
Environment	Operating Temperature	-20℃ ~ 70℃
	Operating Humidity	10% ~ 95%, non-condensing
Physical	Dimensions	COM Express Basic, Type 6 [125mm x 95mm]

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:

KOREA H.Q.

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