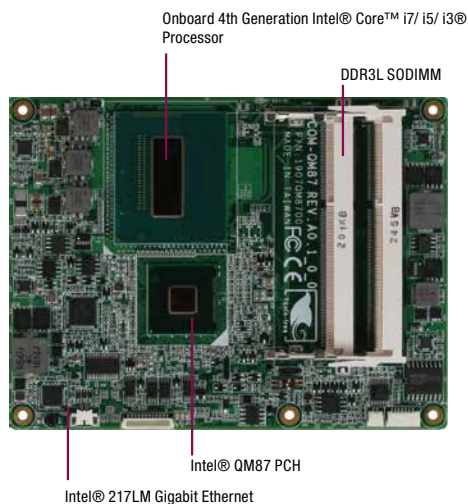


06 COM-QM87

COM Express CPU Type 6 Module with Intel® Core™ i7/i5 Processor, BGA1364

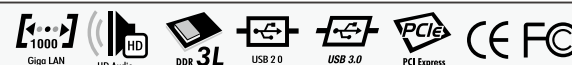


Specifications

System	
Form Factor	COM Express, Compact, Pin-out Type 6
CPU	Onboard 4th Generation Intel® Core™ i5 Processor
CPU Frequency	Up to 2.7GHz
Chipset	Intel® PCH QM87
Memory Type	DDR3/DDR3L 1333/1600, SODIMM x 2, Supports Dual Channel function
Max. Memory Capacity	16GB
BIOS	ANI BIOS
Wake on LAN	Yes
Watchdog Timer	255 Levels
Power Requirement	Nominal: +12V
Power Supply Type	AT/ ATX
Power Consumption (Typical)	Intel® Core™ i5-4400E 2.7GHz, DDR3 1600 8GB, 3.21A @+12V
Dimension (L x W)	4.92" x 3.74" (125mm x 95mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	80,000
Certification	CE/FCC
Display	
VGA/LCD Controller	Intel® Core™ i7/i5/i3 Celeron® integrated
Video Output	CRT, LVDS LCD, DDI
I/O	
Ethernet	Intel® 217LM, Gigabit Ethernet
Audio	High definition audio
USB Port	USB2.0 x 8, USB3.0 x 4
Serial Port	Tx/Rx x 2
Parallel Port	—
HDD Interface	SATA x 4
SSD	—
Expansion Slot	PCI-Express[x1] x 7 (Gen 2.0) PCI-Express[x16] x 1 (Gen 3.0) Configurable to 2 x 8-lane PCI Express Ports Configurable to 1 x 8-lane or 2 x 4-lane PCI Express Ports LPC Bus x 1, SM Bus x 1, I2C x 1
DIO	GPIO 8-bit
TPM	Optional

Features

- Onboard 4th Generation Intel® Core™ i7/i5 Processor
- Intel® QM87 PCH
- Dual-Channel DDR3L 1333/1600 MHz SODIMM, Up to 16 GB
- Gigabit Ethernet (iAMT 9.0 Support)
- CRT, eDP, 18/24-bit Dual-Channel LVDS
- USB3.0 x 4, USB2.0 x 8, SATA x 4
- PCI-Express [x16] x 1, PCI-Express [x1] x 7
- COM Express Compact, Pin-out Type 6, COM.0 Rev. 2.1



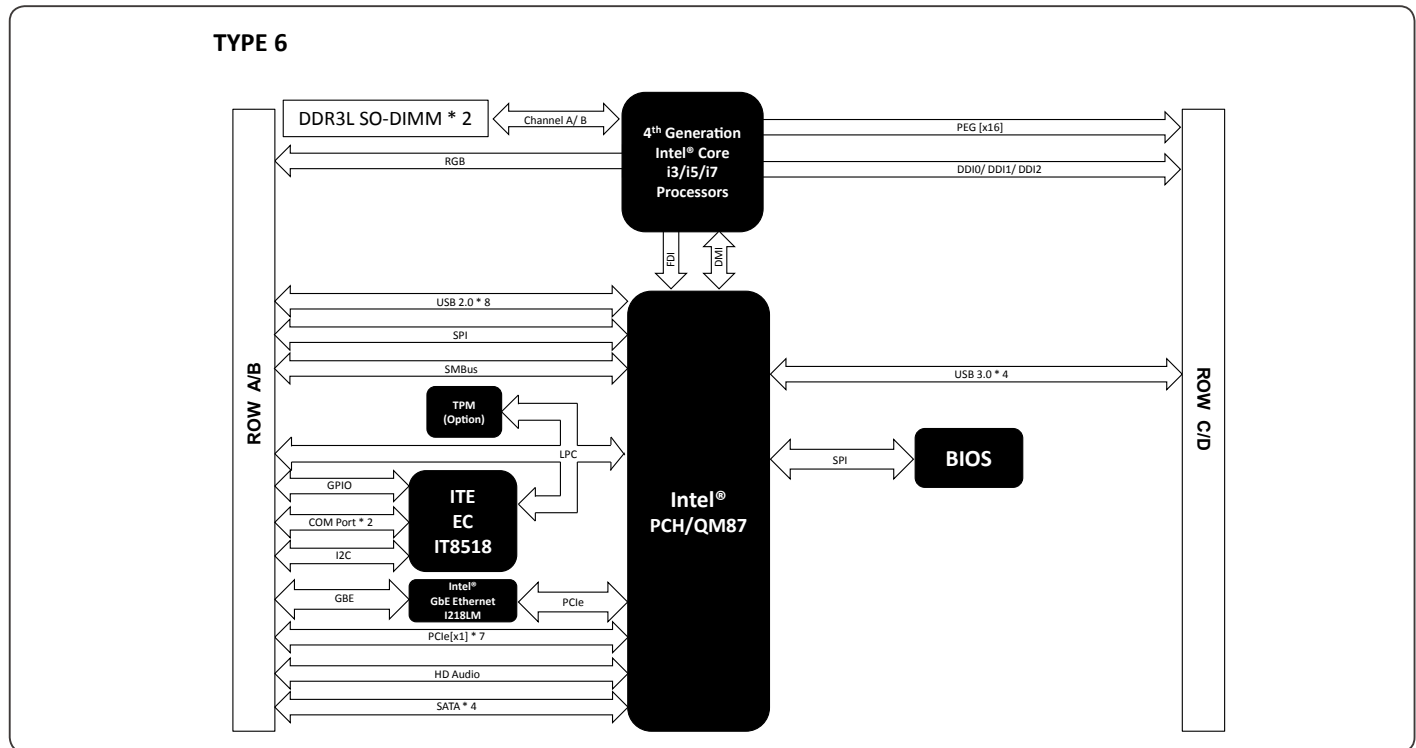
Packing List

- M2.5 Screw x 5
- Product CD
- COM-QM87

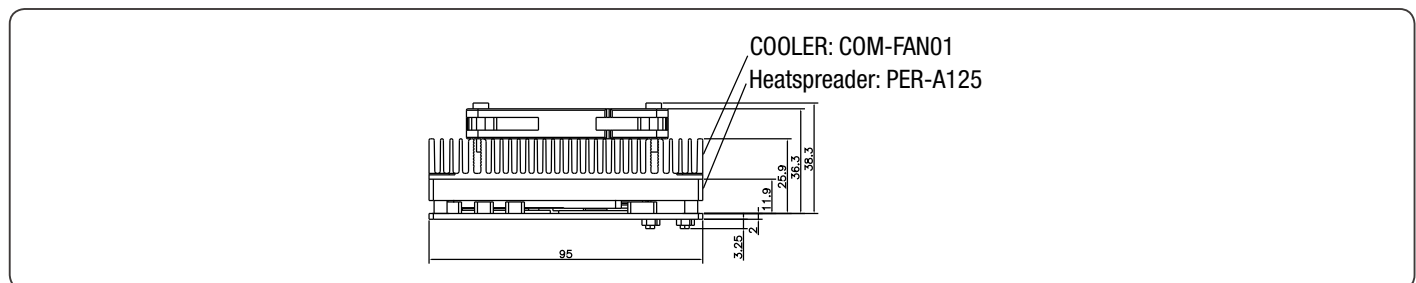
Optional Accessories

- **ECB-920A-A10-0001**
COM Express Type 1/6/10 Carrier Board, Gigabit Ethernet, USB, 2 COM, 4 SATA, PCIe, AT/ATX, Legacy Free, Rev. A1.0
- **PER-A125**
Heat Spreader, For COM-QM87, Onboard CPU
- **COM-FAN01**
CPU Cooler, 125 x 95 x 26.4mm, Silver, use with HSP

Block Diagram Unit: mm



Dimension Unit: mm



Ordering Information

Part Number	COM Express Type	CPU	Memory	Display	LVDS	Storage	LAN	USB	UART	Expansion Slot	Power	Power Temp	Others
COM-QM87-A10	6 (COM.0 Rev 2.1)	4th Gen. Intel® Core™ i5-4400E/2.7 GHz (BGA1364)	DDR3L SODIMM x 2 up to 16 GB	CRT, DDI, eDP/LVDS	18/24b 2CH (LVDS shared with eDP)	SATA x 4	GbE x 1	USB3.0 x 4 USB2.0 x 8	2 (Tx/Rx)	PCI-E[x1] x 7 PCI-E[x16] x 1	12V	0°C~60°C	—
COM-QM87-A10-0001	6 (COM.0 Rev 2.1)	4th Gen. Intel® Core™ i5-4402E/1.6 GHz (BGA1364)	DDR3L SODIMM x 2 up to 16 GB	CRT, DDI, eDP/LVDS	18/24b 2CH (LVDS shared with eDP)	SATA x 4	GbE x 1	USB3.0 x 4 USB2.0 x 8	2 (Tx/Rx)	PCI-E[x1] x 7 PCI-E[x16] x 1	12V	0°C~60°C	—
COM-QM87-A10-0002	6 (COM.0 Rev 2.1)	4th Gen. Intel® Core™ i7-4700EQ/2.4 GHz (BGA1364)	DDR3L SODIMM x 2 up to 16 GB	CRT, DDI, eDP/LVDS	18/24b 2CH (LVDS shared with eDP)	SATA x 4	GbE x 1	USB3.0 x 4 USB2.0 x 8	2 (Tx/Rx)	PCI-E[x1] x 7 PCI-E[x16] x 1	12V	0°C~60°C	—