

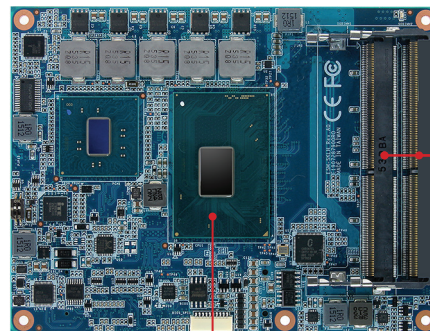
# ESM-SKLH

COM Express Module

6th Gen Intel Core™ Processor i7/i5/i3 Type6 COMe Basic Module with Intel® QM170 Chipset

## Features

- Onboard 6th Gen Intel® Core™ i7/i5/i3 Processor
- Two 260-pin SODIMM DDR4 SDRAM slot up to 32GB
- Dual-channel 18/24-bit LVDS, VGA, DP/HDMI/DVI
- Optional eDP
- Intel® I219LM Gigabit Ethernet
- 8 PCIe x1, 1 PCIe x16, 4 SATA, 8 USB 2.0, 4 USB 3.0
- HD Audio Interface
- Type 6 Rev 2.1 Pin-out
- TPM 2.0



Dual DDR4 SODIMM  
Up to 32GB DDR4  
2133 SDRAM

Onboard 6th Gen Intel® Core™ SoC  
i7/i5/i3/Celeron BGA Processor

## Specifications

### System

<b>CPU</b>	6th Gen Intel® Core™ i7-6820EQ 4-Core 2.8GHz processor 6th Gen Intel® Core™ i5-6440EQ 4-Core 2.7GHz processor 6th Gen Intel® Core™ i3-6102E 2-Core 1.9GHz processor
<b>BIOS</b>	AMI uEFI BIOS, 128Mbit SPI Flash ROM
<b>System Chipset</b>	Intel QM170
<b>System Memory</b>	2 x 260-Pin DDR4 SO-DIMM up to 32 GB
<b>Expansion</b>	8 x PCIe x1
<b>I/O Chip</b>	EC ITE IT8528E

### OS Support

<b>OS Info</b>	Win 10, Win 8.1, Win 7, Linux
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### I/O

<b>MIO</b>	1 x SMBus 1 x LPC 1 x I2C
<b>USB</b>	8 x USB 2.0 4 x USB 3.0
<b>COM</b>	2 x UART
<b>SATA</b>	4 x SATA III
<b>DIO</b>	1 x 8-bit GPIO

### Display

<b>Chipset</b>	Intel® Skylake SoC integrated Graphics
<b>Resolution</b>	VGA: Max. resolution 1920x1080 @ 60Hz LVDS: Max. resolution 1920x1080 @ 60Hz HDMI: Max. resolution 4096x2304 @ 24Hz (HDMI Max resolution only one display output)
<b>Multiple Display</b>	(VGA + DP) + HDMI + DDI LVDS + (VGA + DP) + DDI LVDS + (VGA + DP) + HDMI LVDS + HDMI + DDI
<b>LVDS</b>	CH7511B(eDP to LVDS)
<b>DDI</b>	HDMI DVI DisplayPort

### Audio

<b>HD Codec</b>	Intel® High Definition Audio
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### Ethernet

<b>LAN Chip</b>	1 x Intel® i219LM
<b>Ethernet Interface</b>	10/100/1000 Base-Tx GbE compatible

### Mechanical & Environment

<b>Power Requirement</b>	+9V ~ +19V
<b>ACPI</b>	Single Power ATX Support S0, S3, S4, S5 ACPI 3.0 Compliant
<b>Power Type</b>	AT/ATX
<b>Operating Temp.</b>	0 ~ 60°C (32 ~ 140°F)
<b>Storage Temp.</b>	-40 ~ 75°C (-40 ~ 167°F)
<b>Operating Humidity</b>	0%~90% Relative Humidity, Non-condensing
<b>Form Factor</b>	COM Express Module
<b>Dimensions</b>	5" x 3.7" (125mm x 95mm)
<b>Weight</b>	0.44lbs (0.2kg)
<b>Certification Information</b>	CE FCC Class B

### Ordering Info

<b>ESM-SKLH-6820</b>	Intel QM170 Core i7-6820EQ Type6 COMe Module
<b>ESM-SKLH-6440</b>	Intel QM170 Core i5-6440EQ Type6 COMe Module
<b>ESM-SKLH-6102</b>	Intel QM170 Core i3-6102E Type6 COMe Module
<b>EEV-EX14-A2R</b>	mATX Ev. Board for COMe Type 6 A1.1

\* All product specifications and images are subject to change without notice.  
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