



ESM-SKLH

6th Gen Intel Core™ Processor i7/i5/i3
Type6 COMe Basic Module with Intel®
QM170/CM236 Chipset

- > Onboard 6th Gen Intel® Core™ Processor i7/i5/i3 Processor
- > Two 260-pin SODIMM DDR4 SDRAM slot up to 32GB, CM236 Support ECC Function
- > Dual-channel 18/24-bit LVDS, VGA, DP/HDMI/DVI, eDP Option
- > 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 Pin-out
- > TPM 2.0 (optional)

+ Spec

System	
Processor	6th Gen Intel® Core™ i7-6820EQ 4-Core 2.8GHz processor
System Chipset	Intel QM170 /CM236
System Memory	2 x 260-Pin DDR4 SO-DIMM up to 32 GB
I/O Chip	EC ITE IT8528E
BIOS	AMI uEFI BIOS, 64/ 128Mbit SPI Flash ROM
Expansion	
Expansion	8 x PCIe x1
I/O	
USB	8 x USB 2.0 4 x USB 3.0
SATA	4 x SATA III
Com Port	2 x UART
DIO	1 x 8bit GPIO
MIO	1 x SMBus 1 x LPC 1 x I2C
Display	
Resolution	VGA: Max. resolution 1920x1080 @ 60Hz LVDS: Max. resolution 1920x1080 @ 60Hz HDMI: Max. resolution 4096x2034 @ 60Hz(only one display output)
LVDS	CH7511B(eDP to LVDS)
Multiple Display	VGA+LVDS+DDI VGA+DDI+DDI
DDI	HDMI DVI DisplayPort
Interface	Intel® Valleyview SoC integrated Graphics
Audio	
Audio Interface	Intel® High Definition Audio
Audio Amplifier	Intel® QM170 integrated
Ethernet	
Chipset	1 x Intel® I219LM
Ethernet Interface	10/100/1000 Base-Tx GbE compatible
Mechanical & Environmental	
Power Requirement	+9V ~ +19V
ACPI	Single Power ATX Support S0, S3, S4, S5 ACPI3.0 Compliant
Power Type	AT/ATX
Operating Temp	0°C ~ 60°C (32°F ~ 140°F)
Storage Temp	-40°C ~ 75°C (-40°F ~ 167°F)
Operating Humidity	0% ~ 90% Relative Humidity, Non-condensing
Dimension (L x W)	5" x 3.7" (125mm x 95mm)
Certifications	
Certification Information	CE FCC Class B
Software Support	



OS Information

Win 10
Win 8.1
Win 7
Linux

+ Ordering

EEV-EX14-A2R
mATX Ev. Board for COMe Type 6 A1.1

ESM-SKLH-6820-A1R
Intel® Core™ i7-6820EQ Type6 COMe Compact Module

ESM-SKLA-1205-A1R
Intel® Xeon® E3-1505M v5 Type6 COMe Compact Module