



ESM-SKLH

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

- > 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, 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 Rev 2.1 Pin-out
- > TPM 2.0

+ Spec

-System Information-	
Processor	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
Platform Controller Hub	Intel QM170
System Memory	2 x 260-Pin DDR4 SO-DIMM up to 32 GB
I/O Chipset	EC ITE IT8528E
BIOS Information	AMI uEFI BIOS, 128Mbit SPI Flash ROM
Expansion	
Expansion	8 x PCIe x1
I/O	
USB Port	8 x USB 2.0 4 x USB 3.0
COM Port	2 x UART
SATA	4 x SATA III
DIO	1 x 8bit GPIO
MIO	1 x SMBus 1 x LPC 1 x I2C
Display	
Graphic Chipset	Intel® Skylake SoC integrated Graphics
Spec. & Resolution	VGA: Max. resolution 1920x1080 @ 60Hz LVDS: Max. resolution 1920x1080 @ 60Hz HDMI: Max. resolution 4096x2304 @ 24Hz (HDMI Max resolution only one display output)
Multiple Display	(VGA + DP) + HDMI + DDI LVDS + (VGA + DP) + DDI LVDS + (VGA + DP) + HDMI LVDS + HDMI + DDI
LVDS	CH7511B(eDP to LVDS)
DDI	HDMI DVI DisplayPort
Audio	
Audio Interface	Intel® High Definition Audio
Certifications	
Certification Information	CE FCC Class B
Ethernet	
LAN Chipset	1 x Intel® I219LM
Ethernet Interface	10/100/1000 Base-Tx GbE compatible
Mechanical & Environmental	
Operating Temperature	0°C ~ 60°C (32°F ~ 140°F)
Storage Temperature	-40°C ~ 75°C (-40°F ~ 167°F)
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Weight	0.44lbs(0.2kg)
Power Requirement	+9V ~ +19V
ACPI	Single Power ATX Support S0, S3, S4, S5 ACPI 3.0 Compliant
Power Mode	AT/ATX
Dimension (L x W)	5" x 3.7" (125mm x 95mm)
Software Support	



OS Information	Win 10 Win 8.1 Win 7 Linux
Ordering Information	
Ordering Information	ESM-SKLH-6820-A1R Intel® Core™ i7-6820EQ Type6 COMe Basic Module ESM-SKLH-6440-A1R Intel® Core™ i5-6440EQ Type6 COMe Basic Module ESM-SKLH-6102-A1R Intel® Core™ i3-6102E Type6 COMe Basic Module EEV-EX14-B1R mATX Ev. Board for COMe Type 6 A1.1 ACC-ESMSKLH-CL-1R Cooler for ESM-SKLH/ESM-SKLA W/FAN H=43.5mm ACC-ESMKBLH-SD-1R Heatspreader W/O FAN H=8.0mm (for ESM-KBLH/ESM-KBLA/ESM-SKLH/ESM-SKLA)

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Assured Systems

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