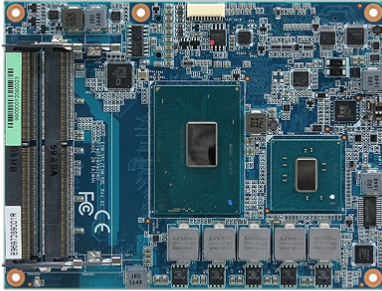




ESM-KBLH

7th Gen Intel® Core™ Processors i7/i5/i3 Type6
COMe Basic Module with Intel® QM175 Chipset



- > Onboard 7th 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 PHY
- > 8 PCIe x1, 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	
Processor	7th Gen Intel® Core™ i7-7820EQ 4-Core 3.0GHz processor 7th Gen Intel® Core™ i5-7440EQ 4-Core 2.9GHz processor 7th Gen Intel® Core™ i3-7100E, 2-Core, 2.9GHz processor
System Chipset	Intel® QM175 Express Chipset
System Memory	2 x 260-Pin DDR4 2400/2133MHz SO-DIMM up to 32 GB
I/O Chip	EC ITE IT8528E
BIOS	AMI uEFI BIOS, 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	
Chipset	Intel® Kabylake SoC integrated Graphics
Resolution	HDMI 1.4: 4096 x 2160 @24Hz (only one display output); DP 1.2: 4096 x 2304 @60Hz (only one display output); eDP 1.4 (optional): 4096 x 2304 @60Hz (only one display output); LVDS (via eDP-to-LVDS): 1920 x 1080 @60Hz; VGA (via DP-to-VGA): 1920 x 1080 @60Hz
LVDS	CH7511B(eDP to LVDS)
Multiple Display	(VGA+DP)+HDMI+DDI LVDS+(VGA+DP)+DDI LVDS+(VGA+DP)+HDMI LVDS+HDMI+DDI
DDI	HDMI DVI DisplayPort
Audio	
Audio Interface	Intel® High Definition Audio
Ethernet	
Chipset	1 x Intel® I219M
Ethernet Interface	10/100/1000 Base-Tx GbE compatible
Mechanical & Environmental	
Power Requirement	+9V ~ +19V
ACPI	Single Power ATX Support S0, S3, S4, S5 ACPI 5.0 Compliant
Power Type	AT/ATX
Operating Temp	0°C ~ 60°C (32°F ~ 140°F) (Standard)
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)
Weight	0.44lbs(0.2kg)
Certifications	
Certification Information	CE FCC Class B
Software Support	
OS Information	Win 10 Linux (Kernel>4.5) (64-bit)

