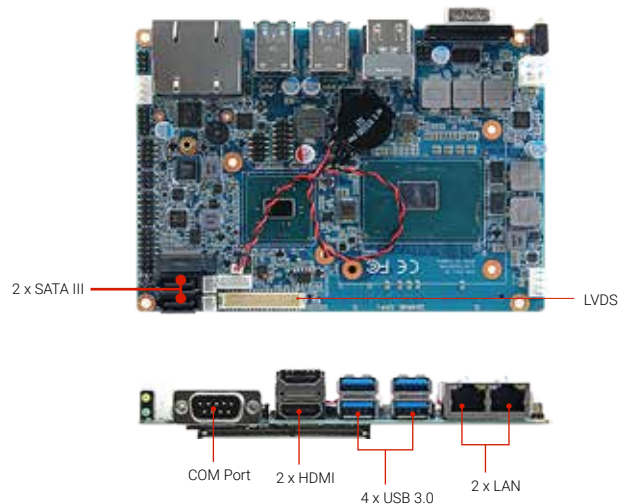


## Features

- Onboard 7th Gen Intel® Core™ i7/i5/i3 BGA Processor
- One 260-pin DDR4 SODIMM Socket, Supports Up to 16GB DDR4 2400 SDRAM (only support non-ECC)
- Dual-channel 18/24-bit LVDS, HDMI
- Triple Display (LVDS, 2x HDMI)
- 2 x SATA III, 1 x Mini PCIe, 4 x USB 3.0
- 1 x M.2 (2242) SSD
- 2 x USB 2.0, 2 x COM, 8-bit GPIO
- HD Audio, Dual Gigabit Ethernet
- TPM 2.0/1.2 (Both optional)
- iAMT 11



## Specifications

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	1 x 260-Pin DDR4 2400MHz SO-DIMM up to 16 GB
I/O Chip	EC ITE IT8528E
BIOS	AMI uEFI BIOS, 128Mbit SPI Flash ROM
Watchdog Timer	H/W Reset, 1sec. ~ 65535sec.
H/W Status Monitor	Monitoring System Temperature and Voltage with Auto Throttling Control
Expansion	1 x Mini PCIe Supports mSATA 1 x M.2 (B-Key, 2242)
Storage	1 x mSATA Supported from Mini PCIe 1 x M.2 (SATA)
Supported OS	Win 10, Linux
Display	
Chipset	Intel® Kaby lake SoC integrated Graphics Supports triple display
Resolution	HDMI: Max. resolution 4096x2160 @ 24Hz LVDS: Max. resolution 1920x1080 @ 60Hz LVDS + Dual HDMI Dual-channel 18/ 24-bit LVDS
External I/O	
USB	4 x USB 3.0
COM	1 x COM
LAN	2 x RJ-45
Onboard I/O	
USB	2 x USB 2.0
COM	1 x COM
SATA	2 x SATA III
MIO	1 x LPC, 1 x SPI, 1 x 8bit GPIO

Audio	
Chipset	Realtek ALC892
Ethernet	
LAN 1	Intel® I210-AT Gigabit Ethernet
LAN 2	Intel® I219-LM Gigabit Ethernet
Mechanical & Environment	
Power Requirement	+12V
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)
Storage Temp	-40°C ~ 75°C (-40°F ~ 167°F)
Operating Humidity	0% ~ 90% Relative Humidity, Non-condensing
Dimension (L x W)	5.7" x 4" (146mm x 101mm)
Weight	0.44lbs (0.2kg)
Certification Information	CE FCC Class B

## Ordering Info

**ECM-KBLH-7820EQ** Intel® Core™ i7-7820EQ 4-Core 3.0GHz processor 3.5" SBC

\* All product specifications and images are subject to change without notice. Last update: 6/1/2018