

Features

- 6th/7th Generation Intel® Core™ i-H series Processor
- DDR4 SODIMM x 2, 2133MHz, up to 32G
- LVDSx 2, HDMI x 2
- USB 3.2 Gen 1 x 2 (Rear I/O), USB 2.0 x 5 (Internal)
- LAN x 2 (RJ45 x 1, internal x 1)
- M.2 2280 Slot x 1 (B Key: SATA/USB 3.2 Gen 1/USB2.0)
- M.2 2230 Slot x 1 (E Key: PCIe/USB2.0)
- Mini-PCle Slot x 1 (PCIe/USB2.0), Micro-SIM slot x 1
- Audio Codec with Amp, SATA x 2, , COM x 4
- +9V~36V AT/ATX
- Support dual battery



Specifications

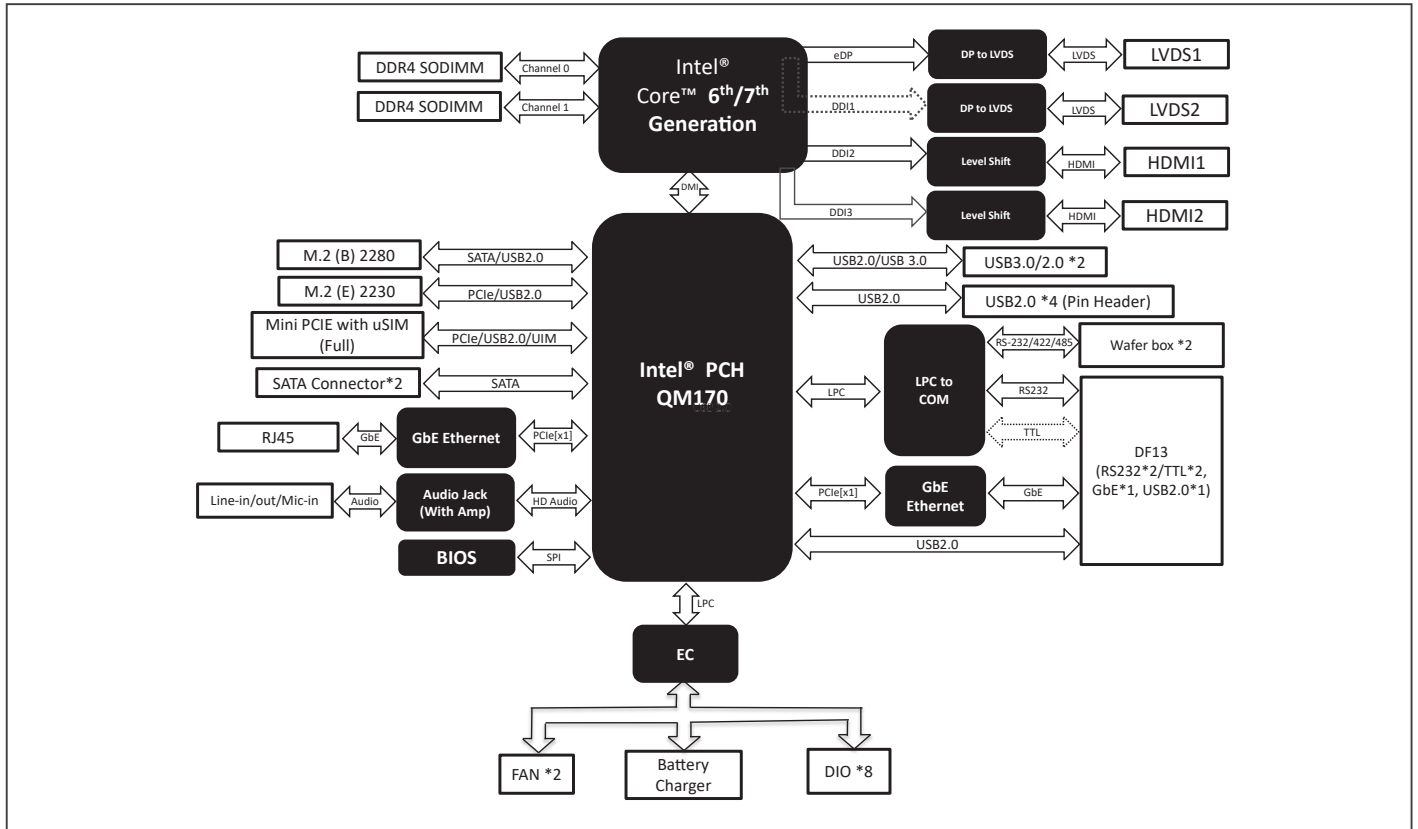
System	
Form Factor	4" EPIC Board
CPU	6th/7th Generation Intel® Core™ i-H series Processor
CPU Frequency	i7-6822EQ (4C, 2GHz, up to 2.8GHz) i7-7820EQ (4C, 3.0GHz, up to 3.7GHz)
Chipset	Intel® QM170 (TDP: 2.6W)
Memory Type	SODIMM DDR4 memory slot x 2
Max. Memory Capacity	Up to 32GB
BIOS	UEFI/Legacy
Wake on LAN	Yes
Watchdog Timer	255 Levels
Power Requirement	+9V ~ 36V
Power Supply Type	AT/ATX
Power Consumption (Typical)	CPU 45W TDP
Dimension (L x W)	4.53" x 6.5" (115 x 165 mm)
Operating Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	TBD
Certification	CE/FCC Class A
Display	
VGA/LCD Controller	Intel® HD Graphics 530 Intel® HD Graphics 630
Video Output	LVDS x 2 HDMI 1.4 x 2
Backlight Inverter Supply	18/24bit (2CH)
I/O	
Ethernet	Intel GbE i211
Audio	ALC269 (With 2W Amp)
USB Port	USB 3.2 Gen 1/2.0 x 2 (Rear I/O) USB 2.0 x 5 (Internal header)

Serial Port	RS-232/422/485 x 2 (Internal header) RS-232 x 2 (Internal header)
Parallel Port	—
HDD Interface	SATA x 2
SSD	—
Expansion Slot	M.2 2280 Slot (B Key) x 1 M.2 2230 Slot (E Key) x 1 Mini-PCle Slot (PCIe/USB2.0) x 1 Micro-SIM slot LPC Bus SMBus (default) / I2C (option)
DIO	8-bit
TPM	—
Touch	—
SIM	Micro SIM

Optional Accessories

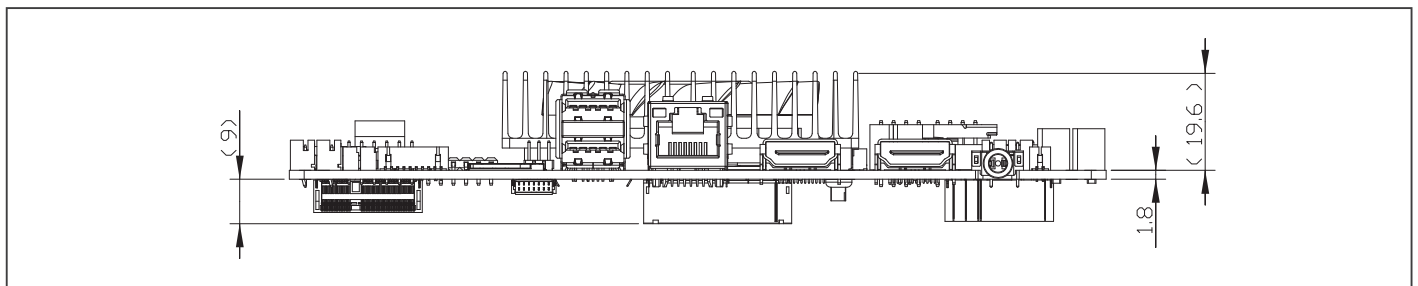
Part Number	Description	QTY
EPIC-SKH7-FAN01		1

Block Diagram



Dimension

Unit: mm



Ordering Information

Part Number	CPU	Thermal	Display	LVDS	Storage	LAN	USB	RS-232	RS-232/422/485	Expansion Slot	Power	Operating Temp	Others
EPIC-SKH7-A10-0001	i7-7820EQ	Fan	2HDMI	18/24bits, 2CH	SATA3 x 2	GbE x 2	USB3.2 Gen1 x 2 USB2.0 x 5	2	2	M.2 2280 Slot (B Key) x 1 M.2 2230 Slot (E Key) x 1 Mini-PCle Slot (PCIe/USB2.0) x 1	DC 9-36V	0-60°C	DIO 8 bit, LPC Bus, Micro SIM, SMBUS/I2C