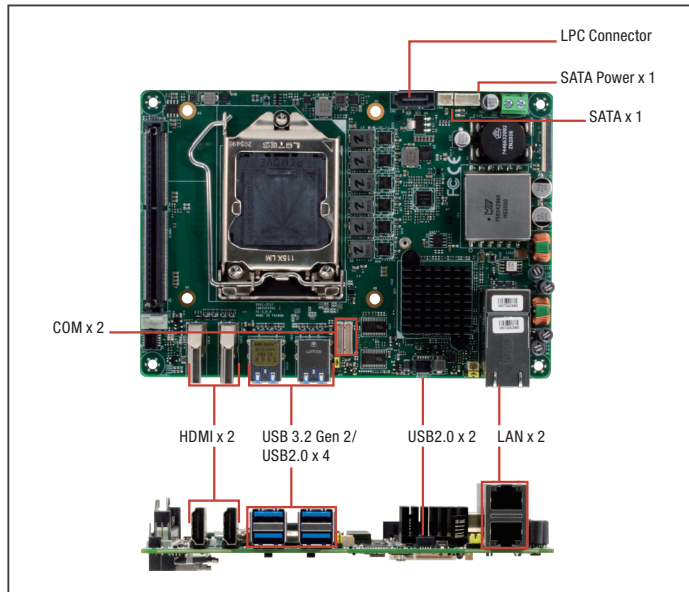


EPIC Board with 8th Generation Intel® Core™ i-S series Processor (Socket Type)



## Features

- 8th Generation Intel® Core™ i-S Series Processor (Socket Type)
- 12V Only, DDR4 SODIMM x 2, 2666MHz, up to 32 GB
- HDMI1 / HDMI2 Display
- SATA3.0 x 1
- USB 3.2 Gen 2/USB2.0 x 4 (Rear I/O), USB 2.0 x2 (Internal)
- RS-232/422/485 x 2
- PoE x 2 (Onboard design, support 802.3af only)
- mSATA/Mini-PCIe x 1 (Full size) (H310: By BOM change, Q370: By BIOS Change for mPCIe)
- Daughter Board: Additional PoE x 2 (Expansion from PCIe[x4] FPC slot, support 802.3af only); Isolated DIO 32 bit (16 in/16 out)



## Specifications

System	
Form Factor	4" EPIC Board
CPU	8th Generation Intel® Core™ Processor family
CPU Frequency	Up to 4.6GHz
Chipset	Intel® H310/Q370 (TDP: 6W)
Memory Type	DDR4 2666 MHz SODIMM x 2 (Dual Channel, Non-ECC)
Max. Memory Capacity	Up to 32GB
BIOS	AMI UEFI
Wake on LAN	Yes
Watchdog Timer	255 Levels
Power Requirement	+12V
Power Supply Type	AT/ATX (ATX mode for system level)
Power Consumption (Typical)	TBD
Dimension (L x W)	4.53" x 6.5" (115mm x 165mm)
Operating Temperature	32°F ~ 122°F (0°C ~ 50°C)
Storage Temperature	-4°F ~ 176°F (-20°C ~ 80°C)
Operating Humidity	0 ~ 90% @ 40°C, non-condensing
MTBF (Hours)	TBD
Certification	CE/FCC Class A
Display	
VGA/LCD Controller	8th Generation Intel® Core™ Processor family
Video Output	HDMI x 2
Backlight Inverter Supply	—
I/O	
Ethernet	Intel® I211, 10/100/1000Base, RJ45 x 2 (Support PoE 802.3af)
Audio	—
USB Port	USB 3.2 Gen 2/ USB2.0 x 4 (Rear I/O) USB 2.0 x 2 (Internal header)
Serial Port	RS-232/422/485 x 2 (Internal header)
Parallel Port (printer port)	—
HDD Interface	SATA 3.0 x 1
SSD	—
Expansion Slot	PCIe[x4] FPC slot (For PoE card) Full Size mSATA/mPCIe slot x 1 LPC Bus SMBus (default) / I2C (option)
DIO	Isolated DIO 32 bits (16 bits in/16 bits out) *optional function from daughter board
TPM	—
Touch	—
SIM	—

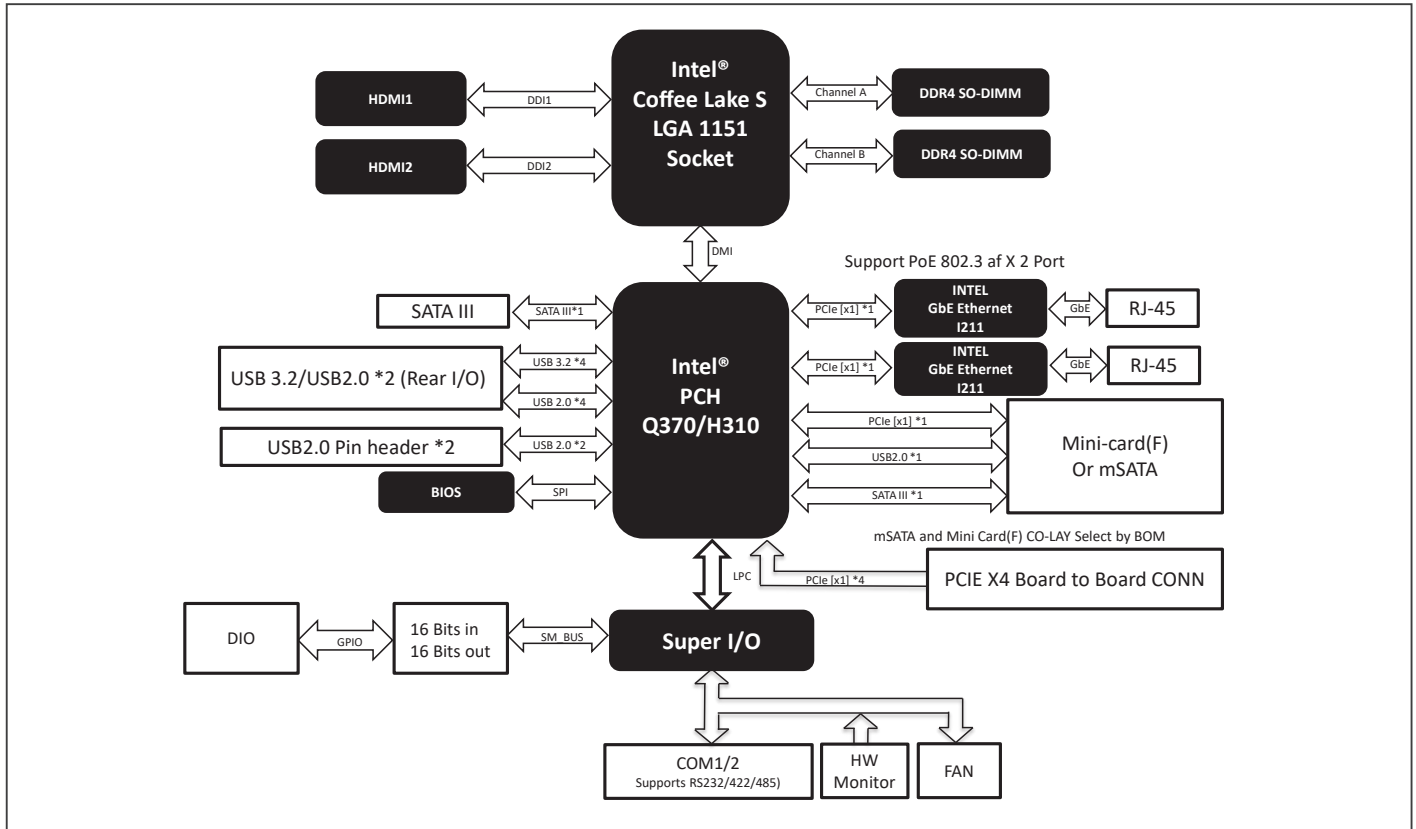
## Packing List

- Jumper Cap (9657666600)
- Back plate for cooler (M09KBS9000)
- EPIC-CFS7

## Optional Accessories

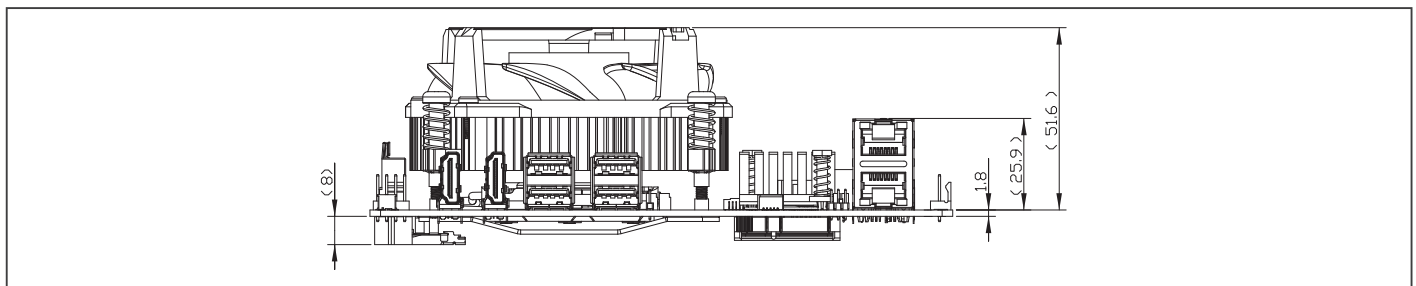
Part Number	Description	QTY
1702002010	Power Cable (2pin) 10cm	1
1709070400	SATA Cable 40cm	1
1702150155	SATA Power Cable 15cm	1
1700100100	USB2.0 Cable 10cm	1
EPIC-CFS7-FAN01	CPU Cooler	1

## 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-CFS7-A13-0001 (Q370)	8th gen socket type	Fan	2HDMI	—	SATA3 x 1	GbE x2 (PoE)	USB3.2 Gen2 x 2 USB2.0 x 2	—	2	Mini-card full size (SATA/PCIe) x 1 PCIE4(FPC slot) x1	DC 12V	0~50°C	SMBUS
EPIC-CFS7-A13-0002 (H310)	8th gen socket type	Fan	2HDMI	—	SATA3 x 1	GbE x2 (PoE)	USB3.2 Gen2 x 2 USB2.0 x 2	—	2	Mini-card full size (SATA/PCIe) x 1 PCIE4(FPC slot) x1	DC 12V	0~50°C	SMBUS
EPIC-CFS7-A13-0003 (H310)	8th gen socket type	Fan	2HDMI	—	SATA3 x 1	GbE x 2	USB3.2 Gen2 x 2 USB2.0 x 2	—	2	Mini-card full size (SATA/PCIe) x 1 PCIE4(FPC slot) x1	DC 12V	0~50°C	SMBUS