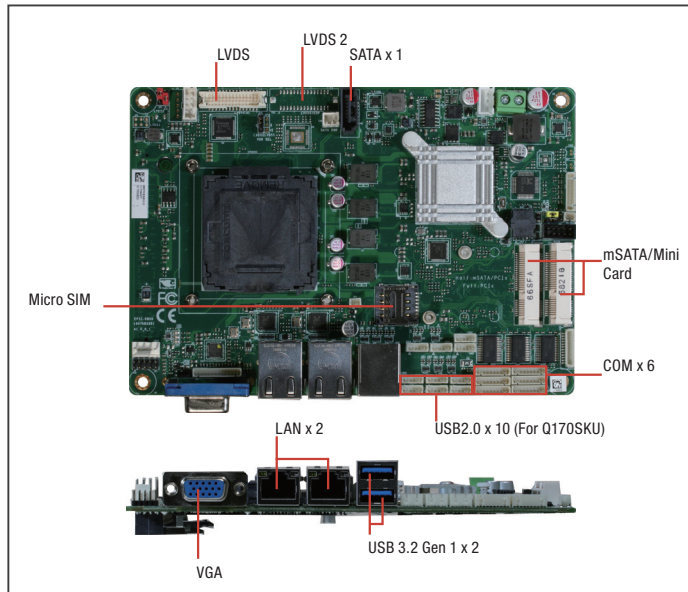


EPIC Board with 6th/7th Generation Intel® Core™ i-S series Processor (Socket Type)



Features

- 6th/7th Generation Intel® Core™ i-S series Processor (Socket Type)
- 9-24V Wide DC Input or 12V Only (Optional), Non-ECC DDR4 SODIMM x 1 (Up to 16 GB)
- VGA/LVDS1/LVDS2 Display (LVDS1 Co-design with eDP, VGA with Internal and Rear Design)
- USB 3.2 Gen 1 x 2, USB 2.0 up to 10 Ports
- mSATA Half-size x 1, Mini-Card Full-size x 1 with UIM
- HDA, SATA 6.0 Gb/s x 1, GPIO x 8, COM x 6 (COM2-5 with 5V/12V/RI Design)
- Optional: SPK Amplifier, I2S Design

Specifications

System	
Form Factor	4" EPIC Board
CPU	CPU Socket Type
CPU Frequency	6th/7th Generation Intel® Core™ i3/i5/i7/Celeron® (Support up to 54W SKU)
Chipset	H110/Q170 (6W)
Memory Type	DDR4 (Non-ECC) SODIMM x 1, 2133MHz
Max. Memory Capacity	Up to 16GB
BIOS	AMI
Wake on LAN	Yes
Watchdog Timer	255 Levels
Power Requirement	9-24V (Optional: 12V)
Power Supply Type	AT/ ATX
Power Consumption (Typical)	—
Dimension (L x W)	4.53" x 6.50" (115 mm x 165 mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 85°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	—
Certification	CE/FCC
Display	
VGA/LCD Controller	6th/7th Generation Intel® Core™ i3/i5/i7/Celeron®
Video Output	VGA/LVDS1 (Optional: LVDS2/eDP)
Backlight Inverter Supply	Max. 12V, 2A
I/O	
Ethernet	LAN x 2 (Rear I/O)
Audio	REALTEK ALC892 (Optional: 2W Amp, I2S)
USB Port	Rear I/O: USB 3.2 Gen 1 x 2 Internal: USB 2.0 x 10 (for Q170 SKU)
Serial Port	COM x 6 (All internal, COM2: RS-232/422/485, COM2-5 5V/12V/RI)
Parallel Port (printer port)	—
HDD Interface	SATA 3.0 x 1
SSD	mSATA x 1 (Half size, optional for Mini-card)
Expansion Slot	Mini-card x 1 (Full size)
DIO	8-bit
TPM	—
Touch	—
SIM	Micro SIM (Optional)



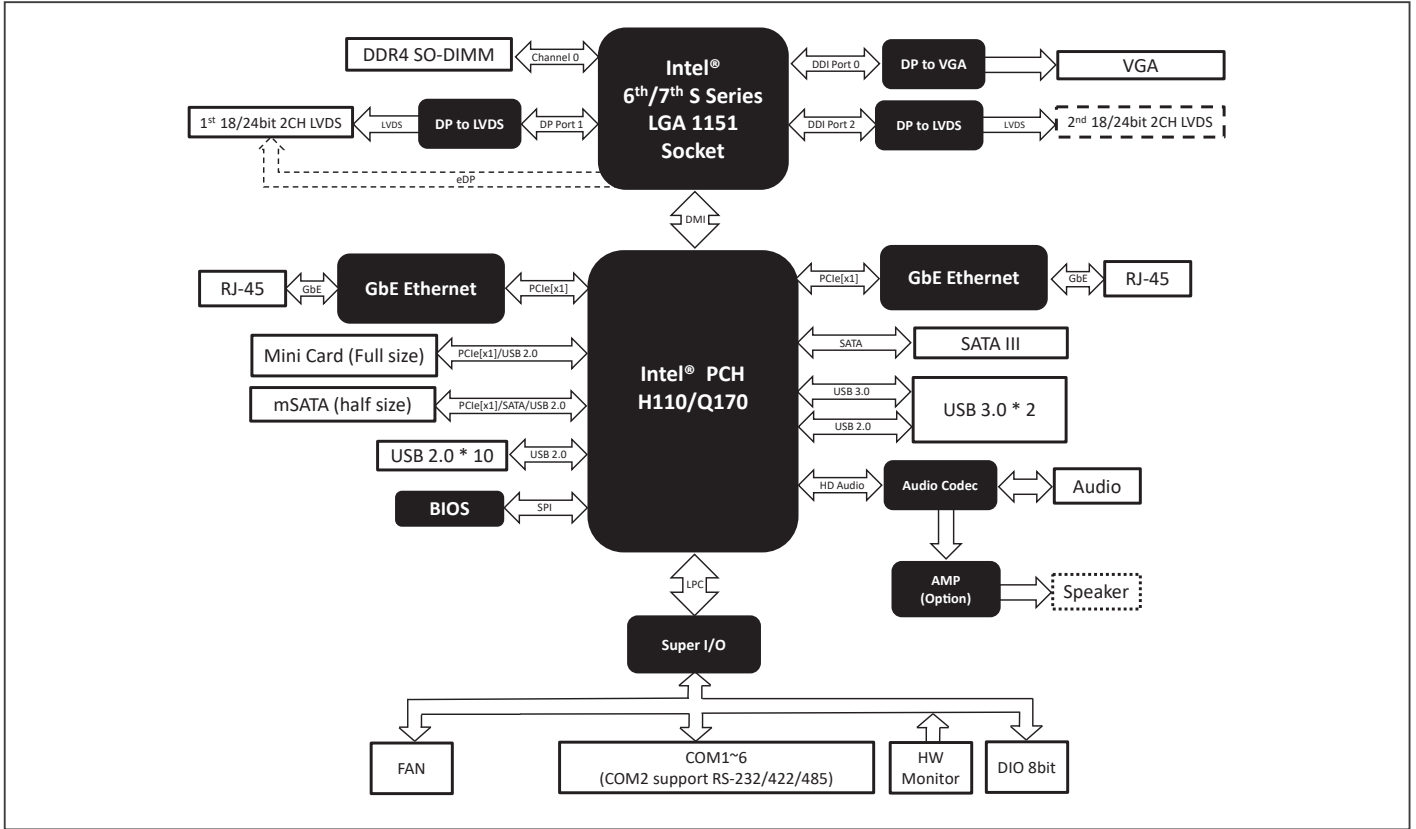
Packing List

- SATA Cable, Length 50cm (1709070500)
- SATA Power Cable, Length 15cm (1702150155)
- Jumper Cap (9657666600)
- EPIC-KBS8

Optional Accessories

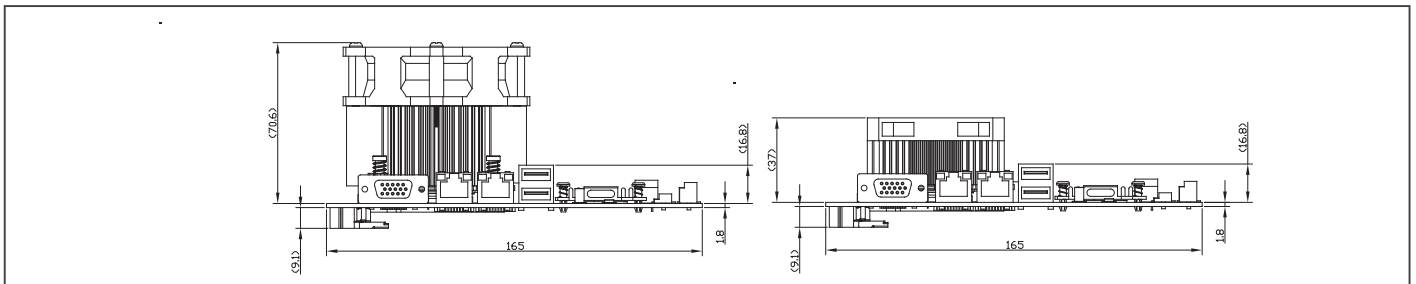
Part Number	Description	QTY
1702002010	Power Cable (2pin), Length 10cm	1
1709100254	Audio Cable (3pin), Length 25cm	1
1700050207	USB Cable (5pin), Length 20cm	10
1701090150	COM Cable (9pin), Length 15cm	4
1704150153	Internal VGA Cable	1
EPIC-KBS7-FAN01	79*79*61mm.Silver.Recommended for operating temperature 0°C ~ 60°C (35/54W)	1
EPIC-KBS7-FAN02	60*60*30mm.Silver.Recommended for operating temperature 0°C ~ 55°C (35W)	1

Block Diagram



Dimension

Unit: mm



Ordering Information

Part Number	CPU	Memory	Thermal	Display	Storage	LAN	USB	RS-232	RS-232/422/485	Expansion Slot	Power	Operating Temp	Others
EPIC-KBS8-A10-0001 (Standard, H110)	LGA1151 (Socket Type)	DDR4 (Max 16G)	FAN	VGA + LVDS1	SATA 6.0 Gb/s x 1 mSATA x 1 (Half size) (by BOM change for mPCIe)	GbE x 2	USB 3.2 Gen 1 x 2 (Rear) USB2.0 x 6 (Internal)	5	1	MiniCard x 1 (Full)	9-24V	0°C ~ 60°C	Audio, DIO x 8
EPIC-KBS8-A10-0002 (Advanced, Q170)	LGA1151 (Socket Type)	DDR4 (Max 16G)	FAN	VGA + LVDS1 + LVDS2	SATA 6.0 Gb/s x 1 mSATA x 1 (Half size) (By BIOS select for mPCIe)	GbE x 2	USB 3.2 Gen 1 x 2 (Rear) USB2.0 x 10 (Internal)	5	1	MiniCard x 1 (Full)	9-24V	0°C ~ 60°C	Audio, Micro-SIM, DIO x 8