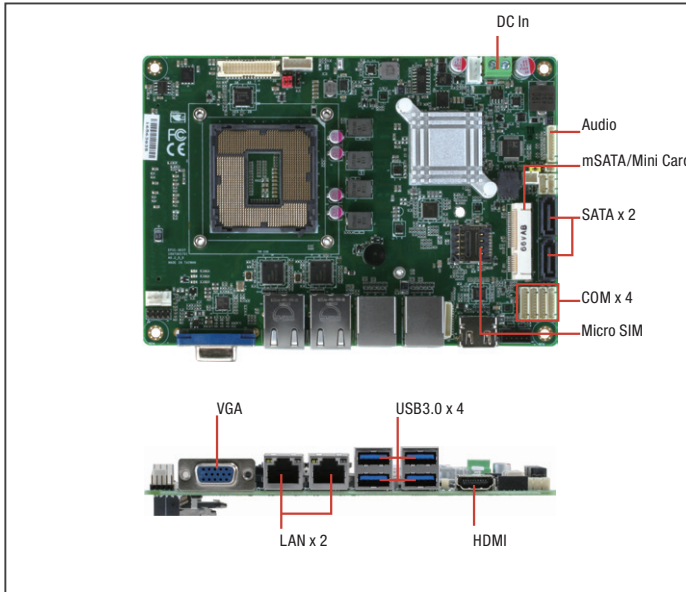


EPIC Board with 6th/7th Generation Intel® Core™ i-S series Processor (Socket Type)



Features

- 6th/7th Generation Intel® Core™ i-S series Processor (Socket Type)
- 12V, 9-24V Wide Voltage, Non-ECC DDR4 SODIMM x 1 (Up to 16 GB)
- Basic VGA/HDMI/LVDS Display
- USB 3.0 x 4, USB 2.0 x 2, Good for Machine Vision
- mSATA/Mini-PCIe Full Size x 1 (Default: mSATA, BOM change for H110)
mSATA/Mini-PCIe Full Size x 1 (Default: mSATA, BIOS Selection for Q170)
- HDA, SATA x 2, GPIO x 8, COM x 4

Specifications

| System | |
|-----------------------------|---|
| Form Factor | EPIC |
| CPU | 6th/7th Generation CPU (Socket Type, TDP 35W, 54W Only) |
| CPU Frequency | 6th/7th Generation Intel® Core™ i3/i5/i7/Celeron® |
| Chipset | H110, Q170 (6W) |
| Memory Type | DDR4 (Non-ECC), 2133MHz |
| Max. Memory Capacity | Up to 16GB |
| BIOS | AMI |
| Wake on LAN | Yes |
| Watchdog Timer | 255 Levels |
| Power Requirement | 12V or 9-24V (Default) |
| Power Supply Type | AT/ ATX |
| Power Consumption (Typical) | 50W@Full loading |
| Dimension (L x W) | 4.53" x 6.50" (115mm x 165mm) |
| Operating Temperature | 32°F ~ 140°F (0°C ~ 60°C) |
| Storage Temperature | -40°F ~ 176°F (-40°C ~ 80°C) |
| Operating Humidity | 0% ~ 90% relative humidity, non-condensing |
| MTBF (Hours) | 110,000 |
| Certification | CE/FCC |
| Display | |
| VGA/LCD Controller | 6th/7th Generation Intel® Core™ i3/i5/i7/Celeron® |
| Video Output | CRT/LVDS/HDMI |
| Backlight Inverter Supply | Max. 12V |
| I/O | |
| Ethernet | LAN x 2 (Real IO) (i211 x 2) |
| Audio | ALC892, no Amp |
| USB Port | USB3.0 x 4 (Real IO) USB2.0 x 2 (Internal) |
| Serial Port | COM x 4 (COM2: RS-232/422/485) |
| Parallel Port | — |
| HDD Interface | SATA 3.0 x 2, SATA Power (5V) |
| FDD Interface | — |
| SSD | mSATA x 1 (optional for mini-Card) |
| Expansion Slot | Mini-card x 1, Micro SIM x 1 (Optional) |
| PWM LCD Support | — |
| DIO | 8-bit |
| TPM | — |
| Touch | — |



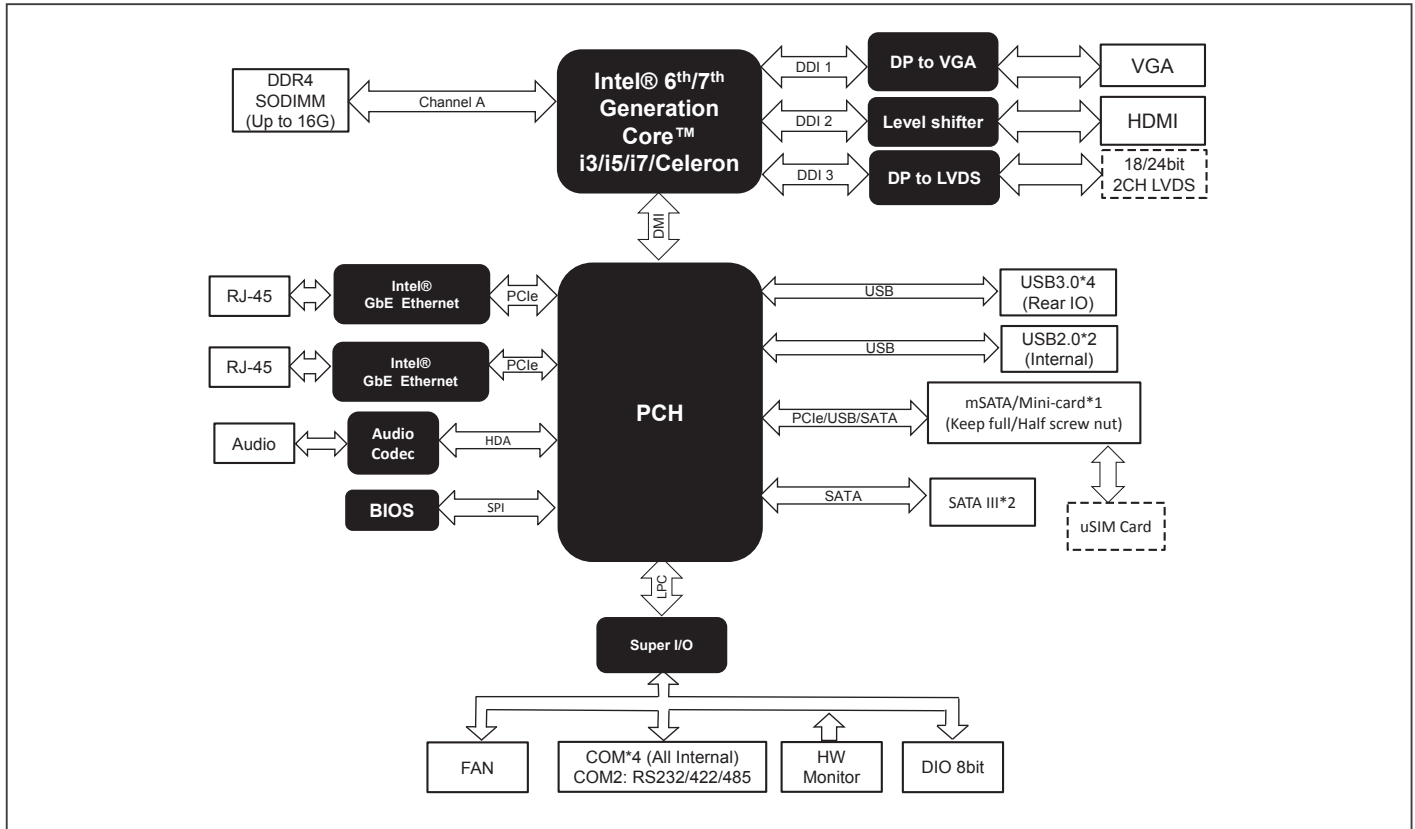
Packing List

- SATA Cable, Length 50cm (1709070500)
- SATA Power Cable, Length 15cm (1702150155)
- Jumper Cap (9657666600)
- Product DVD
- EPIC-KBS7

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 | 4 |
| 1701090150 | COM Cable (9pin), Length 15cm | 4 |
| EPIC-KBS7-FAN01 | 79*79*61mm. Silver. Recommended for operating temperature 0°C ~ 60°C (54W/35W) | 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 | LVDS | Storage | LAN | USB | RS-232 | RS-232/422/485 | Expansion Slot | Power | Operating Temp | Others |
|-------------------------------------|-----------------------|----------------|---------|-------------------|------------|----------|---------|--------------------------|--------|----------------|-------------------------------------|-------|----------------|--------------------|
| EPIC-KBS7-A10-0001 (Standard, H110) | LGA1151 (Socket Type) | DDR4 (Max 16G) | FAN | VGA + HDMI | — | SATA x 2 | GbE x 2 | USB3.0 x 4 USB2.0 x 2 | 3 | 1 | mSATA x 1 (Mini-PCIe by BOM Change) | 9-24V | 0°C ~ 60°C | DIO x 8 |
| EPIC-KBS7-A10-0002 (Advanced, Q170) | LGA1151 (Socket Type) | DDR4 (Max 16G) | FAN | VGA + LVDS + HDMI | 24bit, 2CH | SATA x 2 | GbE x 2 | USB3.0 x 4 USB2.0 x 2 | 3 | 1 | mSATA/miniCard x 1 | 9-24V | 0°C ~ 60°C | Micro-SIM, DIO x 8 |

*BIOS is ready for 6th Gen. and 7th Gen. chipset, please makes sure to use latest BIOS on website.