

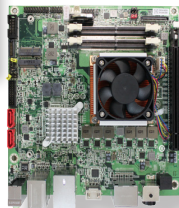


# ITX-i89H0

6<sup>th</sup> Generation Intel® Core™/Xeon® Processor Embedded Mini-ITX Motherboard



Intel CRB



ITX-i89H0

## Features

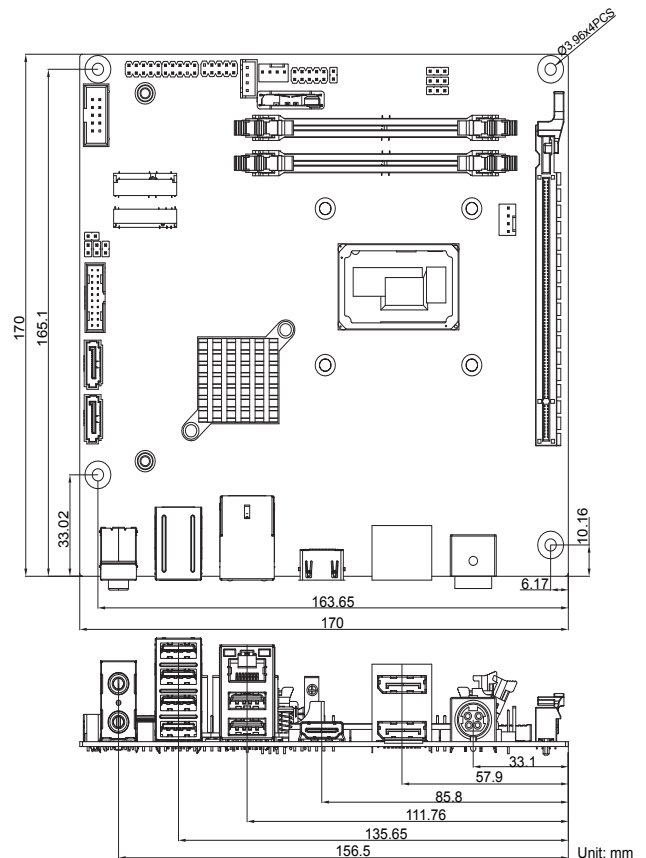
- Soldered onboard 6<sup>th</sup> Generation Intel® Core™/Xeon® Processor
- Integrated Gigabit Ethernet
- ECC memory support
- Dual DisplayPorts and one HDMI support
- Extended operating temp: -20~70°C
- Support Intel® M.2 SSD

| System             |                                                                                       |
|--------------------|---------------------------------------------------------------------------------------|
| Processor          | Soldered onboard Intel® Core™ i3-6100E Dual-core 2.7GHz (Base)                        |
|                    | Intel® Xeon® Processor E3-1505L V5 Quad-core 2.0GHz (Base) / 2.8GHz (Turbo)           |
|                    | Intel® Xeon® Processor E3-1515M V5 Quad-core 2.8GHz (Base) / 3.7GHz (Turbo)(Optional) |
| Chipset            | Intel® CM236                                                                          |
| Memory             | 2 x DDR4 SO-DIMM sockets W/ECC, supporting up to 32GB SDRAM                           |
| BIOS               | AMI BIOS                                                                              |
| I/O                |                                                                                       |
| Super I/O          | Nuvoton NCT6776D                                                                      |
| Serial Port        | 1 x UART connector                                                                    |
| Keyboard & Mouse   | USB interface Keyboard/ Mouse                                                         |
| USB 2.0            | 4 x USB 2.0 ports                                                                     |
| USB 3.0/2.0        | 6 x USB 3.0/2.0 ports                                                                 |
| Expansion          | 1 x PCIe x16 Gen 3.0 slot                                                             |
|                    | 1 x NGFF M.2 E-Key socket for Wireless                                                |
| Storage            | 1 x LPC interface                                                                     |
|                    | 2 x Serial ATA ports with 600MB/s HDD transfer rate                                   |
| Ethernet Chipset   | 1 x NGFF M.2 M-Key socket for SSD                                                     |
|                    | 1 x Intel® i219LM GbE PHY                                                             |
| Audio Interface    | Realtek® ALC662 5.1 Channel HD Audio CODEC, Mic-in/Line-out                           |
| Display            |                                                                                       |
| Graphic Chipset    | Integrated Intel® HD Graphics                                                         |
| Graphic Interface  | 1 x HDMI port                                                                         |
|                    | 2 x DisplayPort ports                                                                 |
| OS Support         |                                                                                       |
| Windows 8.1 64-bit |                                                                                       |
| Windows 10 64-bit  |                                                                                       |

## Mechanical & Environmental

|                    |                                  |
|--------------------|----------------------------------|
| Power Input        | DC 12V DC jack                   |
| Power Consumption  | 4.17A@12V (w/ E3-1505L)          |
| Operating Temp.    | -20 ~ 70°C (-4 ~ 158°F)          |
| Operating Humidity | 10 ~ 95% @ 70°C (non-condensing) |
| Dimension (L x W)  | 170 x 170 mm (6.7" x 6.7")       |

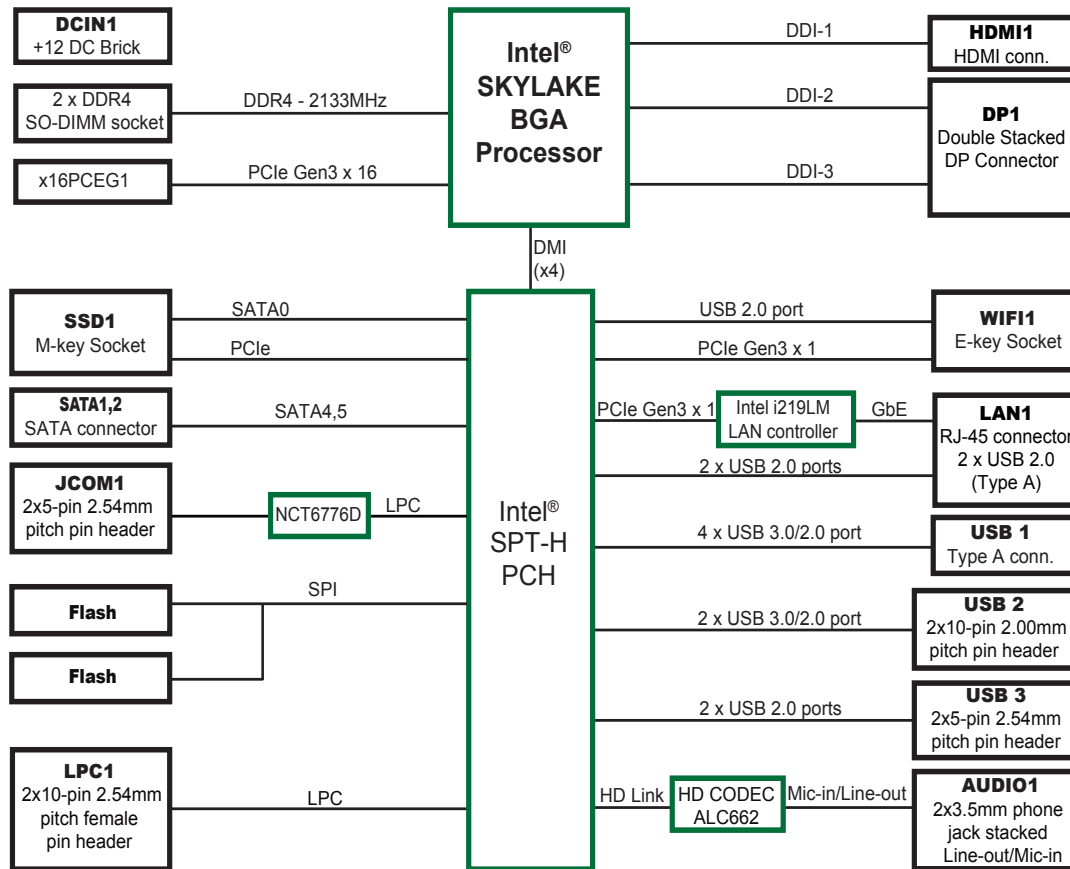
## Dimensions



All specifications are subject to change without notice.



## Block Diagram



## Ordering Information

|                   |                                                                                                |
|-------------------|------------------------------------------------------------------------------------------------|
| ITX-i89H0-A-6100E | Intel® Core™ Processor i3-6100E/CM236 PCH Mini-ITX motherboard                                 |
| ITX-i89H0 (BTO)   | Intel® Xeon® Processor E3-1505L/CM236 PCH Mini-ITX motherboard                                 |
| CBK-06-89H0       | 2 x SATA cables<br>1 x SATA Power cable<br>1 x COM cable<br>1 x USB cable<br>1 x USB 3.0 cable |

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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