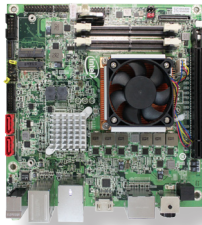
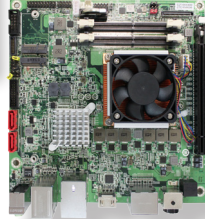


# ITX-i89H0

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
	1 x LPC interface
Storage	2 x Serial ATA ports with 600MB/s HDD transfer rate
	1 x NGFF M.2 M-Key socket for SSD
Ethernet Chipset	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

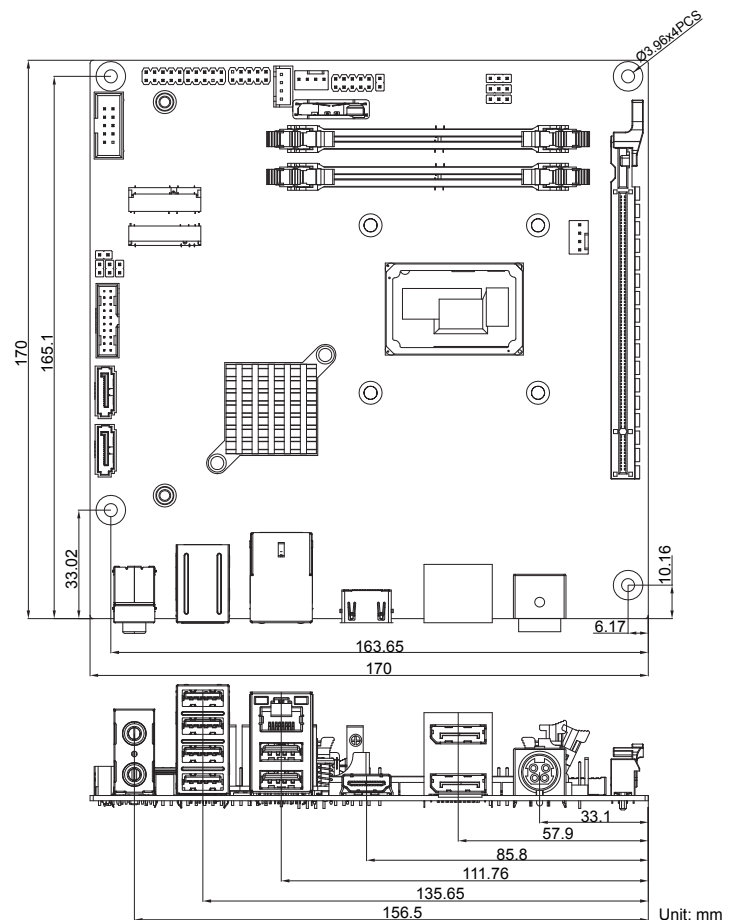
## OS Support

Windows 8.1 64-bit
Windows 10 64-bit

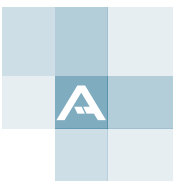
## Mechanical & Environmental

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")

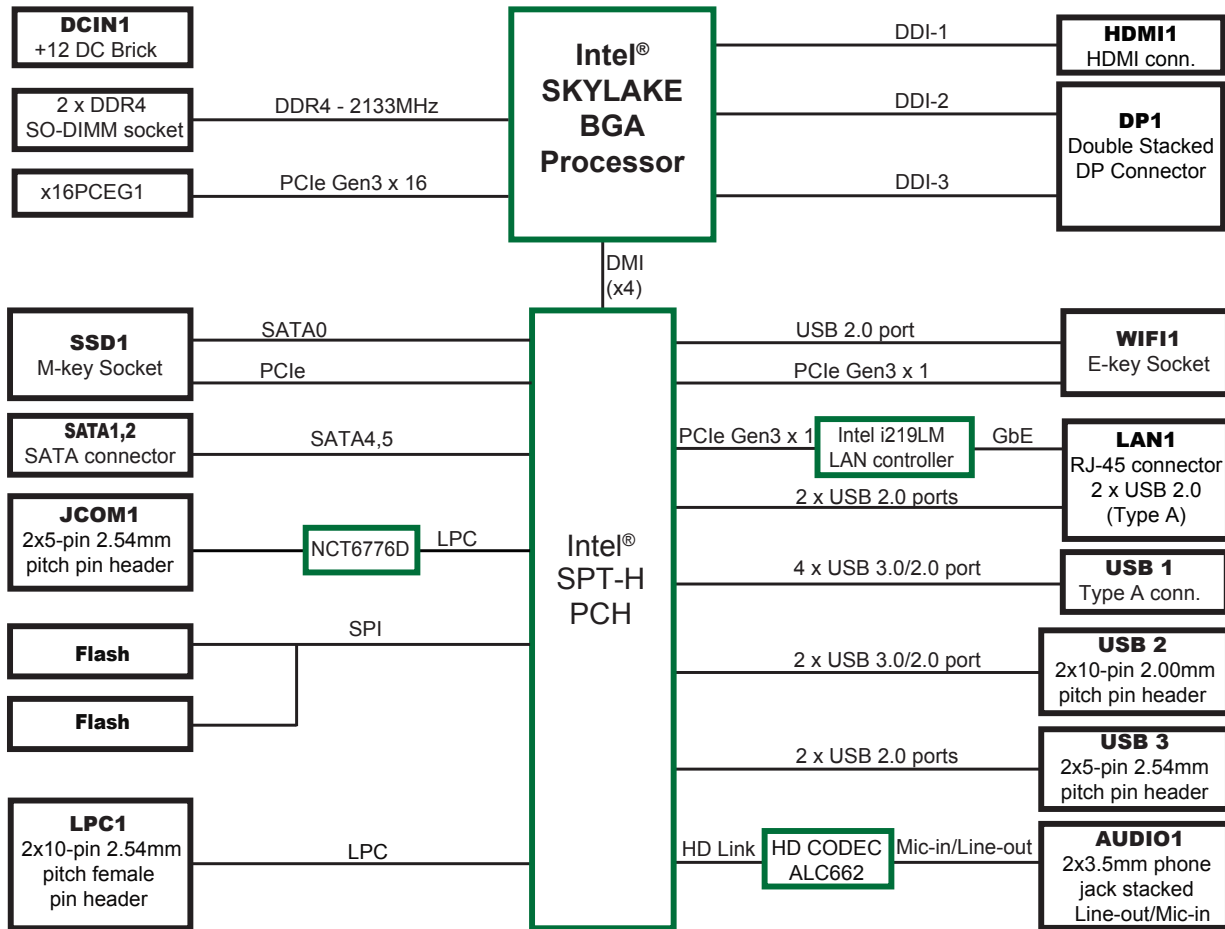
## Dimensions



Unit: mm



## 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 1 x SATA Power cable 1 x COM cable 1 x USB cable 1 x USB 3.0 cable