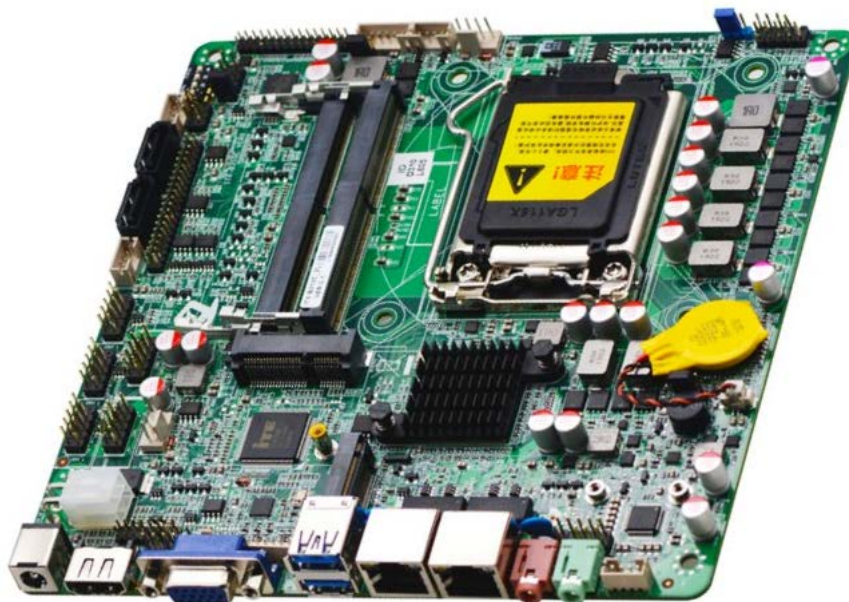


Model: MINI-ITX-310
Industrial MINI ITX Main Board (Coffeelake)



Main Feature:

- Supports 9th / 8th Gen Intel® Core™ / Pentium® Gold / Celeron® processors for LGA 1151 socket
- Supports DDR4 Memory, up to 2666MHz
- 6 x COM ports (COM 2 could set to RS232/422/485)
- Supports Dual display configuration by multiple interface: 2 x HDMI 1.4, VGA & LVDS
- Supports DirectX12, OpenGL4.4, Support 4K 60Hz resolution (Integrated Intel HD ® Graphics Controller)

Specification	
Item	Description
CPU	8 th & 9 th Gen. Intel® Core™ i9/i7/i5/i3/ Pentium / Celeron LGA1151 Processor
Chipset	Intel® H310 Chipset
Memory	Dual channel DDR4 2133/2400/2666 MHz RAM (Non-ECC), Max. Capacity Up to 64GB (16GB per DIMM slot)
Graphic	• 1 x VGA port Supports the highest resolution 1920X1200 @60Hz • 2 x HDMI™ port 1.4, supports a maximum resolution of 4096x2160 @ 30Hz • 1 x 24 bit Dual Channel LVDS
Expansion Slots	1 x MINI PCI-E, support WIFI Module
LAN	2 x Realtek ® RL8111H (Gigabit) 10/100/1000Ethernet, Support wake on LAN/PXE
Storage	2 x SATA 3.0 6Gb/s 1 x M.2 slot (Key M) ➢ Support up to PCIe 2.0 x4 and SATA 6Gb/s ➢ Supports 2242/ 2260 /2280 storage devices

Audio	ALC662 6 - Channel HD Audio CODEC
USB	6 x USB 2.0, 2 x USB 3.0
Special Features	Support ACPI S3
	Support CPU Smart FAN
	Support Watch Dog
Rear Panel I/O	2 x USB 3.0 ports
	2 x RJ-45 port
	1 x VGA / HDMI port
	2 x Audio Phone Jack (Line-out, Mic. -in)
	1 x DC Power Input connector
Internal I/O	6 x USB 2.0 port
	1 x Front Panel header
	6 x COM (COM 2 could set to RS232/422/485)
	1 x CPUFAN & 1 x SYSFAN connector
	1 x AUDIO header, 1 x VGA / HDMI header (Internal)
	2 x SATA & Power connector for SSD & HDD
Power Supply	Supports 12 - 19 VDC input
BIOS	64MB SMT Flash ROM
Supporting OS	DOS; Windows 7/10; Linux
Environment	Operating temperature: 0°C to 60°C Relative humidity: 5% to 95% non-condensing
Compliance	CE; FCC; ROHS
Dimension	170 x 170 (mm)

Processor List

Processor	Core Name	CPU No.	CPU Speed	Wattage	GPU
Core i9	Coffeelake	i9 - 9900KS	4.0	127	UHDGraphics630 1200MHz
Core i9	Coffeelake	i9 - 9900K	3.6	95	UHDGraphics630 1200MHz
Core i7	Coffeelake	i7 - 9700K	3.6	95	UHDGraphics630 1200MHz
Core i7	Coffeelake	i7 - 9700	3.0	65	UHDGraphics630 1200MHz
Core i5	Coffeelake	i5 - 9600K	3.7	95	UHDGraphics630 1200MHz
Core i5	Coffeelake	i5 - 9600	3.1	65	UHDGraphics630 1200MHz
Core i3	Coffeelake	i3 - 9300	3.7	62	UHDGraphics630 1150MHz
Core i3	Coffeelake	i3 - 9100	3.6	65	UHDGraphics630 1100MHz
Pentium Gold	Coffeelake	G5400	3.7	54	UHDGraphics610 1050MHz
Celeron	Coffeelake	G4930	3.2	54	UHDGraphics610 1050MHz