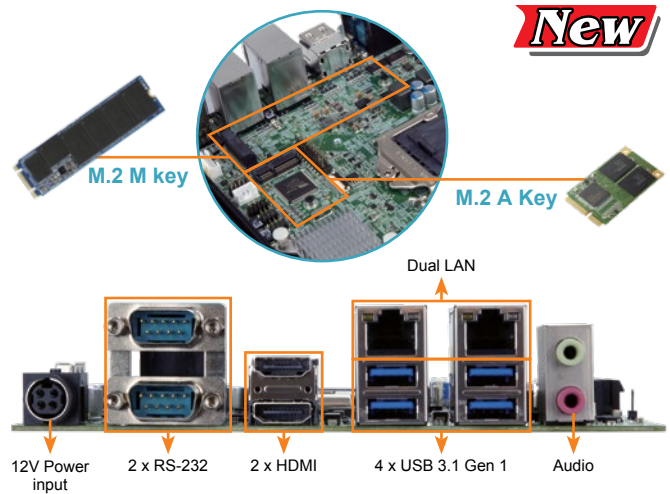
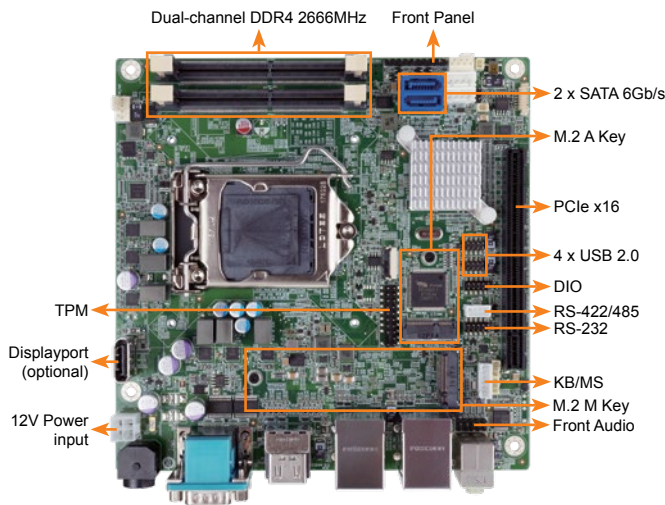


KINO-DH310

Mini-ITX SBC supports 14nm LGA1151 Intel® 8th/9th Generation Core™ i9/i7/i5/i3, Celeron® and Pentium® processor, DDR4, dual independent displays, dual GbE LAN, M.2, SATA 6Gb/s, HD Audio and RoHS



New

Specifications

- ◆ CPU: LGA1151 socket supports 8th/9th generation Intel® Core™ i9/i7/i5/i3, Pentium® or Celeron® processor (35W/65W)
- ◆ Chipset: Intel® H310
- ◆ BIOS: AMI UEFI BIOS
- ◆ Memory: Two 260-pin 2666/2400 MHz Dual-Channel DDR4 SDRAM Unbuffered SO-DIMM slots supported up to 64GB
- ◆ Graphics Engine: Intel® HD Graphics Gen9 Engines with Low power 16 execution unit, supports DX11.3/12, OpenGL 4.3/4.4/4.5 and OpenCL 1.2/2.0/2.1
- ◆ Display Output: Dual independent display
2 x HDMI (up to 4096x2160@30Hz)
1 x internal Displayport (up to 4096x2304@60Hz) (optional)
- ◆ Ethernet: LAN1: Realtek RTL8111H PCIe GbE controller
LAN2: Realtek RTL8111H PCIe GbE controller
- ◆ External I/O Interface: 4 x USB 3.1 Gen 1 (5Gb/s)
2 x RS-232
- ◆ Internal I/O Interface: 1 x KB/MS (1x6 pin) 4 x USB 2.0 (2x4 pin, P=2.0)
1 x RS-422/485 (1x4 pin, P=2.0) 1 x RS-232 (2x5 pin, P=2.0)
2 x SATA 6G/s with 5/12V SATA power connector (No RAID)
- ◆ I²C: 1 x I²C (1x4 pin)
- ◆ TPM: 1 x TPM (2x10 pin)
- ◆ SMBus: 1 x SMBus (1x4 pin)
- ◆ Audio: Realtek ALC662 HD codec
2 x Audio Jack (Lin-out, Mic-in)
1 x Front audio (2x5 pin)
- ◆ Front Panel: 1 x Front Panel (1x10 pin, Power LED, HDD LED, Power Button, Reset Button)
- ◆ LAN LED: 2 x LAN LED (1x2 pin)
- ◆ Expansion: 1 x PCIe x16
1 x M.2 M key (2280, Gen2 PCIe x2 only)
1 x M.2 A Key (2230, PCIe x1 & USB 2.0)
- ◆ Digital I/O: 1 x 8-bit digital I/O (2x5 pin)
- ◆ FAN Connector: 2 x Smart fan connector (1x4 pin)
- ◆ Chassis Open: 1 x Chassis intrusion (1x2 pin)
- ◆ Power supply: DC 12V input
1 x External DC jack (4-pin DIN)
1 x Internal power connector (2x2 pin)
Support AT/ATX mode
ErP/EuP Compliant
- ◆ Watchdog Timer: Software Programmable support 1~255 sec. System reset
- ◆ Power Consumption: 12V@11.32A (Intel® Core™ i7-8700 up to 4.60 GHz CPU with two 8GB 2666MHz DDR4 memory)
- ◆ Operating Temperature: 0°C ~ 60°C
- ◆ Storage Temperature: -10°C ~ 70°C
- ◆ Operating Humidity: 5% ~ 95%, non-condensing
- ◆ Dimension: 170mm x 170mm
- ◆ Weight: GW:900g / NW:400g
- ◆ CE/FCC compliant



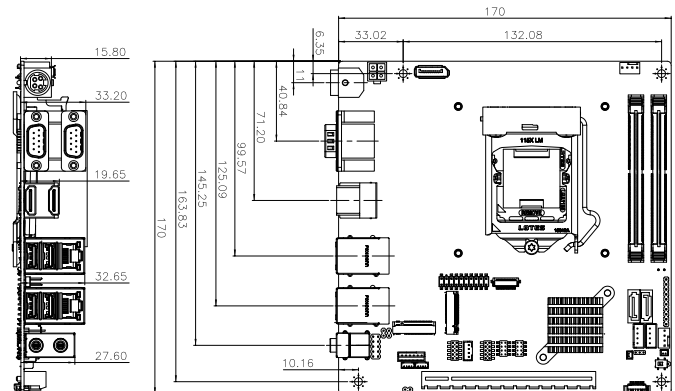
Features

- LGA1151 Intel® 8th/9th generation Core™ i9/i7/i5/i3, Celeron® and Pentium® processor
- Dual-channel DDR4 2666MHz
- Support eDP & Dual HDMI
- Support M.2 A Key for WLAN expansion & M key for storage
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Packing List

1 x KINO-DH310 single board computer	1 x SATA cable
1 x I/O Shielding	1 x QIG

Dimensions (Unit: mm)



Ordering Information

Part No.	Description
KINO-DH310-R10	Mini-ITX SBC supports 14nm LGA1151 Intel® 8th/9th Generation Core™ i9/i7/i5/i3, Celeron® and Pentium® processor, DDR4, dual independent displays, dual GbE LAN, M.2, SATA 6Gb/s, HD Audio and RoHS
KINO-DH310-DP-R10**	Mini-ITX SBC supports 14nm LGA1151 Intel® 8th/9th Generation Core™ i9/i7/i5/i3, Celeron® and Pentium® processor, DDR4, dual independent displays, dual GbE LAN, M.2, SATA 6Gb/s, HD Audio, DP and RoHS
32000-070301-RS	Dual port USB cable, 210mm, P=2.0
32006-001100-201-RS	PS/2 KB/MS cable, 135mm, P=2.0
32205-002700-200-RS	RS-232 cable, 200mm, P=2.0
CF-115XA-R10	High performance LGA115X cooler kit, 1U chassis compatible, 73W
CF-115XC-R10	LGA1155/LGA1156 cooler kit, 1U chassis compatible, 45W
CF-115XD-R10	LGA1155/LGA1156 cooler kit, 1U chassis compatible, 65W
CF-115XE-R10	High-performance LGA1155/1156 cooler kit, 95W
TPM-IN02-R20	20-pin Infineon TPM 2.0 module, software management tool, firmware v5.5

** By order production, MOQ: 100