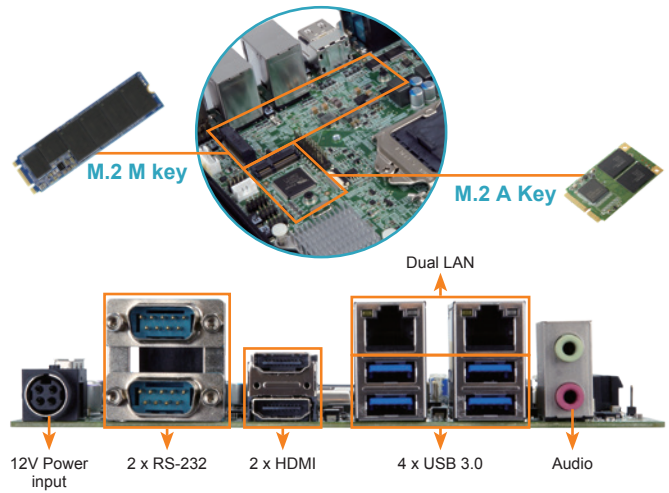
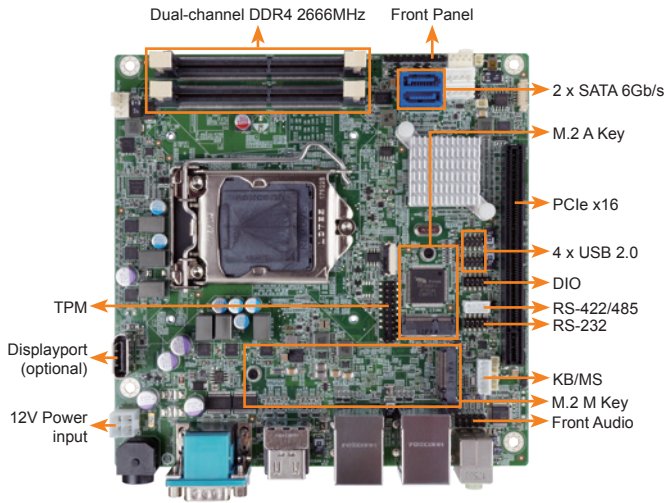


KINO-DH310

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



Specifications

- ◆ CPU: LGA1151 socket supports 8th generation Intel® Core™ 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 1920x1080@60Hz), 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 3.0, 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: 12W@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



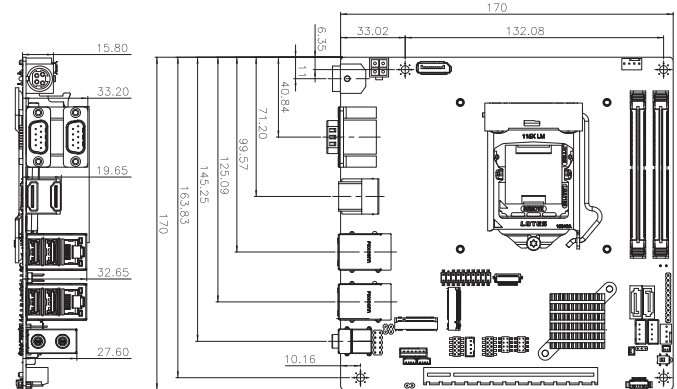
Features

- LGA1151 Intel® 8th Generation Core™ 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-DH130 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 Generation Core™ 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 Generation Core™ i7/i5/i3, Celeron® and Pentium® processor, DDR4, dual independent displays, dual GbE LAN, M.2, SATA 6Gb/s, HD Audio, DP and RoHS |
| 32000-023800-RS | PS/2 KB/MS cable, 135mm, P=2.0 |
| 32000-070301-RS | Dual port USB cable, 210mm, P=2.0 |
| 32205-002700-200-RS | RS-232 cable, 200mm, P=2.0 |
| CF-1156A-RS-R11 | High-performance LGA1155/1156 cooler kit, 1U chassis compatible 73W |
| CF-1156C-RS | LGA1155/LGA1156 cooler kit, 1U chassis compatible, 45W |
| CF-1156D-RS | LGA1155/LGA1156 cooler kit, 1U chassis compatible, 65W |
| TPM-IN02-R20 | 20-pin Infineon TPM 2.0 module, software management tool, firmware v5.5 |

** By order production, MOQ: 100