KINO-DH110

Mini-ITX SBC supports 14nm 6th/7th Generation LGA1151 Intel® Core™ i7/i5/i3, Celeron® and Pentium® processor, DDR4, Dual Independent Display, Dual GbE LAN, USB 3.0, SATA 6Gb/s, M.2, HD Audio and RoHS

Specifications

- CPU
  LGA1151 socket supports 6th/7th generation Intel® Core™ i7/i5/i3, Celeron® and Pentium® processor
- System Chipset
  Intel® H110
- Memory
  260 pin 2133MHz dual-channel DDR4 SDRAM unbuffered DIMM support up to 32GB
- BIOS
  UEFI BIOS
- Graphic Engine
  Intel® HD Graphics Gen 9 engines with 2 independent execution units, support DX2015, OpenGL 5.x, OpenCL 2.0
- Display Output
  Dual independent display
  - 1 x HDMI (up to 3840x2160@60Hz)
  - 1 x DP++ (up to 3840x2160@60Hz)
  - 1 x DP interface for HDMI, LVDS, VGA, DVI, DP (up to 3840x2160@60Hz)
- Ethernet
  LAN1: Intel® I219LM PCIe controller
  LAN2: Intel® I211 PCIe controller
- External I/O Interface
  - 4 x USB 3.0
  - 1 x RS-232/422/485
  - Internal I/O Interface
  - 1 x MB/SIS (1x8 pin)
  - 2 x RS-232 (2x5 pin, P=2.0)
  - SMBus: 1 x SMBus (1x4 pin)
  - PCIE: 1 x PC (1x4 pin)
- Audio
  Realtek ALC662 HD codec supports 5.1-channel
  - 2 x Audio jacks (line-out, mic-in) on rear I/O
  - 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 Full-size PCIe Mini card slot
  - 1 x M.2 B key (SATA)
- Digital I/O Interface
  - 1 x PCIe x16 slot (Gen2)
- Watchdog Timer
  - 2 x PCI
ds

Features

- LGA1151 Intel® 6th/7th Generation Core™ i7/i5/i3, Celeron® and Pentium® processor
- Dual-channel DDR4 2133MHz
- Support HDMI, DP++
- Support M.2 B key, PCIe Mini
- Support USB 3.0 and SATA 6Gb/s
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Packing List

1 x KINO-DH110 single board computer
1 x One Key Recovery CD
1 x I/O shielding
1 x Gigabit Ethernet (Gig)
2 x SATA cable
1 x Utility CD

Ordering Information

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>KINO-DH110-R10</td>
<td>Mini-ITX Motherboard supports 14nm LGA1151 Intel® 6th/7th Generation Core™ i7/i5/i3, Celeron® and Pentium® processor, DDR4, Dual Independent Displays, Dual GbE LAN, USB 3.0, SATA 6Gb/s, M.2, HD Audio and RoHS</td>
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<tr>
<td>32200-070031-000-RS</td>
<td>Dual USB Cable</td>
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<tr>
<td>32200-000049-000-RS</td>
<td>RS232 cable, 200mm</td>
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<tr>
<td>32200-003800-000-RS</td>
<td>RS-422/485 cable, 200mm</td>
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<tr>
<td>CF-1156C-R20</td>
<td>LGA1155/1156 kit, 1U chassis compatible, 45W</td>
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<tr>
<td>CF-1155D-R20</td>
<td>LGA1155/1156 kit, 1U chassis compatible, 65W</td>
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<tr>
<td>CF-1153E-R10</td>
<td>High performance LGA1155/LGA1156 cooler kit, 95W</td>
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<tr>
<td>DP-DP-R10</td>
<td>DisplayPort to DP converter board (for IEI connector)</td>
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<tr>
<td>DP-DVI-R10</td>
<td>DisplayPort to DVI-D converter board (for IEI connector)</td>
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<tr>
<td>DP-HDMI-R10</td>
<td>DisplayPort to HDMI converter board (for IEI connector)</td>
</tr>
<tr>
<td>DP-LVDS-R10</td>
<td>DisplayPort to 24 bit channel LVDS converter board (for IEI connector)</td>
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<tr>
<td>DP-VGA-R10</td>
<td>DisplayPort to VGA converter board (for IEI connector)</td>
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