NANO-ULT5

EPIC SBC supports Intel® 14nm 8th Generation Mobile Core™ i3/i5/i7 and Celeron® on-board processor (ULT) with HDMI, DP, LVDS, mPCIe, M.2 A key, M key, USB 3.1 Gen2, SATA 6Gb/s, COM, Audio and Rohs, -20°C ~ 60°C

Specifications

- Intel® Celeron® processor 4305UE (2.0 GHz Dual Core, 2MB cache, TDP=15W)
- Intel® Core™ i3-8145UE (2.2 GHz Dual Core, 4MB cache, TDP=15W)
- Intel® Core™ i5-8365UE (1.6 GHz, Quad Core, 6MB cache, TDP=15W)
- Intel® Core™ i7-8665UE (1.7 GHz Quad Core, 8MB cache, TDP=15W)
- BIOS: AMI UEFI BIOS
- Memory: Dual 260-pin 2400MHz Dual-channel DDR4 SO-DIMMs support up to 32GB
- Graphics Engine: Intel® HD Graphics Gen9 Low Power; 16 Execution Units
- 4K Codec Decode
- Display Output: Triple Independent Displays
  - 1 x HDMI up to 3840x2160@60Hz
  - 1 x DP up to 3840x2160@60Hz
  - 1 x Internal LVDS up to 1920x1200@60Hz
- Ethernet: 1 x PCIe GbE LAN Intel® i211 controller
- 1 x PCIe GbE LAN Intel® i219 controller
- Embedded Controller: iWDD IT8587VG
- External I/O Interface: 4 x USB 3.1 Gen2
- Internal I/O Interface: 1 x 32 GB eMMC 5.1 (optional)
- Audio: Realtek ALC662
- Fan Connector: 1 x Smart fan connector (1x4 pin)
- Power Supply: 12V DC input
- Power Consumption: TBD
- Watchdog Timer: Software programmable support 1~255 sec. system reset

Features

- EPIC SBC supports Intel® 8th Generation ULT processor or Celeron® on-board SoC
- Triple independent display support
- 12V DC input design
- M.2 slot with A key, M.2 M Key PCIe Mini slot with SIM holder
- COM, USB 3.1 Gen2, SATA 6Gb/s, eMMC 5.1 and audio support
- Support temperature operation: -20°C ~ 60°C

Dimensions (Unit: mm)

- Heat Spreader: 115mm x 165mm
- Power Consumption: 12V DC input
- Dimensions: 115mm x 165mm
- Weight: GW:850g / NW:350g

Packing List

- 1 x NANO-ULT5 single board computer with heatspreader
- 1 x Power cable
- 1 x Audio cable
- 2 x RS-232 cable
- 1 x SATA with power cable kit
- 1 x QIG

Ordering Information

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
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<tr>
<td>NANO-ULT5-C-R10**</td>
<td>EPIC SBC supports Intel® 14nm 8th Generation Mobile Celeron™/4305UE (15W) on-board Processor (ULT) with HDMI/ LVDS/DP, Dual PCIe GBE, USB 3.1 Gen 2, PCIe Mini, M.2 A &amp; M Key, SATA 6Gb/s, SPI TPM, COM, Audio and RoHS</td>
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<tr>
<td>NANO-ULT5-i3-R10</td>
<td>EPIC SBC supports Intel® 14nm 8th Generation Mobile Core™ i3-8145UE (15W) on-board Processor (ULT) with HDMI/LVDS/ DP, Dual PCIe GBE, USB 3.1 Gen 2, PCIe Mini, M.2 A &amp; M Key, SATA 6Gb/s, SPI TPM, COM, Audio and RoHS</td>
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<tr>
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<td>NANO-ULT5-i7-R10</td>
<td>EPIC SBC supports Intel® 14nm 8th Generation Mobile Core™ i7-8665UE (15W) on-board Processor (ULT) with HDMI/LVDS/ DP, Dual PCIe GBE, USB 3.1 Gen 2, PCIe Mini, M.2 A &amp; M Key, SATA 6Gb/s, SPI TPM, COM, Audio and RoHS</td>
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** Without full functions support, please refer to user manual