PICO51R

Pico-ITX SBC with 7th Gen Intel® Core™ i7/i5/i3 and Celeron® Processor, DisplayPort, LVDS and 2 GbE LAN

Features

- 7th generation Intel® Core™ i7/i5/i3 and Celeron® processor
- 1 DDR4 SO-DIMM for up to 16GB of memory
- 2 GbE LAN
- M.2 Key E
- M.2 Key B
- Intel® AMT 11 supported

Core System

- CPU: 7th generation Intel® Core™ i7/i5/i3 and Celeron® processor onboard
- System Memory: 1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB
- Chipset: SoC integrated
- BIOS: AMI
- SSD: Refer to ordering information
- Watchdog Timer: 65535 levels, 1 to 65536 sec.
- Expansion Interface: 1 x M.2 Key E (PCIe x1, USB 2.0 in 22x30)
- Battery: Lithium 3V/220 mAh
- Power Input: 2 x 2-pin connector
  +12V DC-in only
- AT: Auto Power On function supported
- Power Requirements:
  - Intel® i7-7600U @2.8 GHz 8GB DDR4 max. RMS. +12V@3.2A
  - Intel® i5-7300U @2.6 GHz 8GB DDR4 max. RMS. +12V@2.6A
  - Intel® i3-7100U @2.4 GHz 8GB DDR4 max. RMS. +12V@2.3A
  - Intel® Celeron® 3965U @2.2 GHz 8GB DDR4 max. RMS. +12V@1.6A
- Dimensions: 100 x 72 mm
- Board Thickness: 1.6 mm
- Operating Temperature: -20°C to +60°C (-4°F to 140°F)
- Humidity: 10% to 95% relative humidity, non-condensing

I/O

- SATA: Refer to ordering information
- Hardware Monitoring: Detect CPU/system temperature, voltage and fan speed
- Ethernet: 1 x 10/100/1000 Mbps Ethernet with Intel® i219-LM; supports Wake-on-LAN, PXE Boot ROM
- Audio: Refer to ordering information
- USB: 2 x USB 2.0
  2 x USB 3.0
- Serial: 2 x RS-232/422/485
- TPM: N/A
- SMBus: Yes, compatible with I²C
- Digital I/O: 4-channel in/out programmable

Display

- Chipset: Intel® HD Graphics
- Memory Size: Share system memory
- Display Interface:
  1 x DisplayPort
  1 x LVDS, 18/24-bit single/dual channel

Packing List

- Accessories
- 7128H51R000E Heatspreader
- 594H3160400E Power cable, L=100 mm

Ordering Information

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<tr>
<th>Standard</th>
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<th>Audio</th>
<th>Fan</th>
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<tbody>
<tr>
<td>Model</td>
<td>SSD</td>
<td>SATA</td>
<td></td>
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<tr>
<td>PICO51RPGG-i7-7600U (P/N: E38H51R100)</td>
<td>1 x M.2 Key B (SATA, USB 2.0, PCIe x2 optional) in 22x42</td>
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<tr>
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<td>PICO51RPGG-i3-7100U w/fan (P/N: E38H51R107)</td>
<td>1 x M.2 Key B (SATA, USB 2.0, PCIe x2 optional) in 22x42</td>
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<td>N/A</td>
<td>N/A</td>
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<td>PICO51RPGGA-i7-7600U (P/N: E38H51R108)</td>
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<td>1 x SATA-600 Mic-in/Line-out Yes</td>
<td>1 x SATA-600 Mic-in/Line-out Yes</td>
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<td>PICO51RPGGA-i5-7300U (P/N: E38H51R110)</td>
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