

# PICO51R NEW

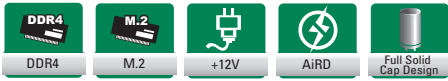
Pico-ITX SBC with 7th Generation Intel® Core™ i7/i5/i3 and Celeron® Processor, DisplayPort, LVDS and 2 GbE LANs

## Features

- 7th generation Intel® Core™ i7/i5/i3 and Celeron® processor
- 1 DDR4 SO-DIMM for up to 16GB of memory
- 2 USB 2.0 and 2 USB 3.0
- M.2 Key E
- M.2 Key B
- Intel® AMT 11 supported



▲ Assembly view



### Core System

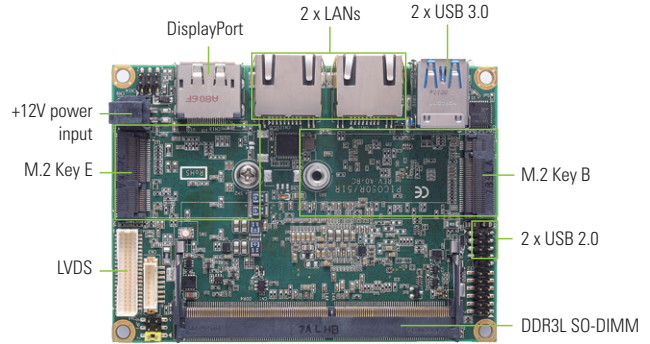
|                       |   |
|-----------------------|---|
| CPU                   | 7th gen Intel® i7/i5/i3 and Celeron® processor onboard                        |
| System Memory         | 1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB                                     |
| Chipset               | SoC integrated  |
| BIOS                  | AMI   |
| SSD                   | 1 x M.2 Key B (SATA, USB 2.0) in 22 x 42                                      |
| Watchdog Timer        | 65535 levels, 1 to 65536 sec.   |
| Expansion Interface   | 1 x M.2 Key E (PCIe x1, USB 2.0) in 22 x 30                                   |
| Battery Lithium       | Lithium 3V/220mAh   |
| Power Input           | 2 x 2-pin connector<br>+12 VDC-in only<br>AT Auto Power On function supported |
| Power Requirements    | TBD   |
| 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

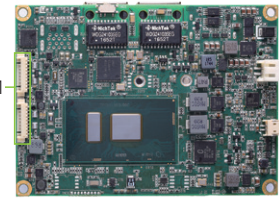
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|---------------------|--|
| SATA                | N/A  |
| Hardware Monitoring | Detect CPU/system temperature, voltage and fan speed   |
| Ethernet            | 1 x 10/100/1000 Mbps Ethernet with Intel® i219-LM;<br>supports Wake-on-LAN, PXE Boot ROM<br>1 x 10/100/1000 Mbps Ethernet with Intel® i211-AT;<br>supports Wake-on-LAN, PXE Boot ROM |
| Audio               | N/A  |
| USB                 | 2 x USB 2.0<br>2 x USB 3.0   |
| Serial              | 2 x RS-232/422/485   |
| TPM                 | N/A  |
| SMBus               | N/A  |
| Others              | 1 x I <sup>2</sup> C   |
| Digital I/O         | 4-channel in/out programmable  |

### Display

|                   |  |
|-------------------|--|
| Chipset           | Intel® HD Graphics   |
| Memory Size       | Share system memory  |
| Display Interface | 1 x LVDS; 18/24-bit single/dual channel<br>1 x DisplayPort |



▲ Side view



▲ Rear view

### Packing List

|                    |  |
|--------------------|--|
| <b>Standard</b>    | Quick installation guide, User's Manual/Utility CD and accessories |
| <b>Accessories</b> | 594H3160400E Power cable, L=100 mm                                 |

### Ordering Information

|                                 |   |
|---------------------------------|---|
| <b>Standard</b>                 |   |
| PICO51RPGG-i7-7600U             | Pico-ITX SBC with Intel® Core™ processor i7-7600U (2.8 to 3.9 GHz, 4MB Cache, 15W), DisplayPort, LVDS, 2 GbE LANs, 2 USB 2.0, and 2 USB 3.0 without fan       |
| PICO51RPGG-i5-7300U             | Pico-ITX SBC with Intel® Core™ processor i5-7300U (2.6 to 3.5 GHz, 3MB Cache, 15W), DisplayPort, LVDS, 2 GbE LANs, 2 USB 2.0, and 2 USB 3.0 without fan       |
| PICO51RPGG-i3-7100U             | Pico-ITX SBC with Intel® Core™ processor i3-7100U (2.4 GHz, 3MB Cache, 15W), DisplayPort, LVDS, 2 GbE LANs, 2 USB 2.0, and 2 USB 3.0 without fan              |
| PICO51RPGG-Celeron 3965U        | Pico-ITX SBC with Intel® Celeron® processor 3965U (2.2 GHz, 2MB Cache, 15W), DisplayPort, LVDS, 2 GbE LANs, 2 USB 2.0, and 2 USB 3.0 without fan              |
| <b>Optional</b>                 |   |
| PICO51RPGG-i7-7600U w/fan       | Pico-ITX SBC with Intel® Core™ processor i7-7600U (2.8 to 3.9 GHz, 4MB Cache, 15W), DisplayPort, LVDS, 2 GbE LANs, 2 USB 2.0, 2 USB 3.0 and heatsink with fan |
| PICO51RPGG-i5-7300U w/fan       | Pico-ITX SBC with Intel® Core™ processor i5-7300U (2.6 to 3.5 GHz, 3MB Cache, 15W), DisplayPort, LVDS, 2 GbE LANs, 2 USB 2.0, 2 USB 3.0 and heatsink with fan |
| PICO51RPGG-i3-7100U w/fan       | Pico-ITX SBC with Intel® Core™ processor i3-7100U (2.4 GHz, 3MB Cache, 15W), DisplayPort, LVDS, 2 GbE LANs, 2 USB 2.0, 2 USB 3.0 and heatsink with fan        |
| PICO51RPGG-Celeron®-3965U w/fan | Pico-ITX SBC with Intel® Celeron® processor 3965U (2.2 GHz, 2MB Cache, 15W), DisplayPort, LVDS, 2 GbE LAN, 2 USB 2.0, 2 USB 3.0 and heatsink with fan         |
|                                 | Heatspreader  |
| 594H3160410E                    | Power cable for adapter, L=100 mm   |
| 50966124030E                    | Adapter 12V 60W FSP060-DIBAN2 with screw.   |
| 59380880250E                    | COM port cable DB9-9 x 1-pin, P=1.25 mm, L=250 mm<br>2 x USB 2.0 cable with bracket, L=180 mm   |