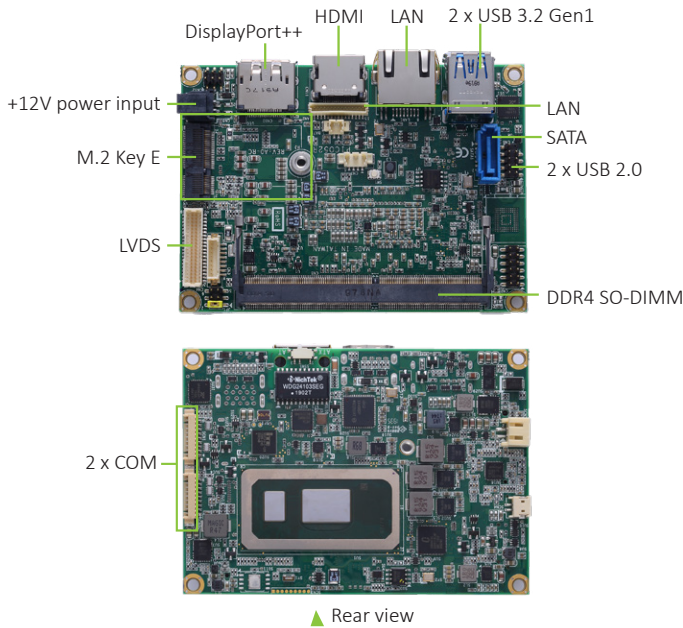


PIC052R

Pico-ITX SBC with 8th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, DisplayPort++, HDMI, LVDS, and 2 GbE LAN



Features

- 8th gen Intel® Core™ i7/i5/i3 and Celeron® processor
- 1 DDR4 SO-DIMM for up to 32GB of memory
- 2 USB 2.0 and 2 USB 3.2 Gen1
- 2 GbE LAN
- M.2 Key E
- Supports Intel® AMT 11



Specifications

Core System

| | |
|---------------------|--|
| CPU | 8th gen Intel® Core™ i7/i5/i3 and Celeron® processor onboard |
| System Memory | 1 x 260-pin DDR4-2400 SO-DIMM, up to 32GB |
| Chipset | N/A |
| BIOS | AMI |
| SSD | 64GB/128GB eMMC (optional) |
| Watchdog Timer | 65536 levels, 0 to 65535 sec. |
| Expansion Interface | 1 x M.2 Key E 2230 (PCIe x1/USB 2.0) |
| Battery Lithium | Lithium 3V/220 mAh |
| Power Input | 2 x 2-pin +12V DC-in connectors with AT auto power on |
| Power Requirements | Intel® Core™ i7-8665UE @1.7 GHz 16GB DDR4, min. RMS. +12V@2.9A Intel® Core™ i5-8365UE @1.6 GHz 16GB DDR4, min. RMS. +12V@2.7A Intel® Core™ i3-8145UE @2.2 GHz 16GB DDR4, min. RMS. +12V@2.3A Intel® Celeron® 4305UE @2.0 GHz 16GB DDR4, min. RMS. +12V@2.0A |

Display

| | |
|-------------------|--|
| Chipset | Intel® HD Graphics |
| Memory Size | Shared system memory |
| Display Interface | 1 x DisplayPort++ 1 x HDMI 1.4 1 x LVDS; 18/24-bit single/dual channel |

I/O

| | |
|---------------------|--|
| SATA | 1 x SATA-3 |
| Hardware Monitoring | Detect CPU/system temperature, voltage and fan speed |
| Ethernet | 1 x 10/100/1000 Mbps Ethernet with Intel® I219-LM supporting Wake-on-LAN, PXE Boot ROM 1 x 10/100/1000 Mbps Ethernet with Intel® I210-AT supporting Wake-on-LAN, PXE Boot ROM |
| Audio | N/A |
| USB | 2 x USB 2.0 2 x USB 3.2 Gen1 |
| Serial | 2 x RS-232/422/485 |
| TPM | N/A |
| SMBus | Yes; compatible with I ² C |
| Digital I/O | 4-channel in/out programmable |

Mechanical and Environmental

| | |
|-----------------------|--|
| 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 |

Packing List

Accessories

| | |
|--------------|--------------------------------------|
| 8593A241000E | AX93A24, RJ-45 I/O board |
| 594H52R2700E | LAN cable, P=2.0, L=200 mm |
| 591000014500 | Power cable, L=100mm |
| 59406308010E | SATA cable, L=150mm |
| 59429070600E | SATA power cable 2P, P=2.0, L=200 mm |

APC201, Industrial Chassis

| | |
|---------------------------------------|---|
| SBC Option | PICO52RHPGG-i3-8145UE w/fan |
| I/O | 1 x GbE LAN 2 x USB 3.2 Gen2 1 x DisplayPort++ 1 x HDMI 1 x 12V DC Jack |
| Dimensions (with wall mount ear) | 152.5 mm (6") (W) x 107.5 mm (4.23") (D) x 50mm (1.97") (H) |
| Operating Temperature | -10°C to +50°C (+14°F to +122°F) |
| APC201-i3-8145UE (P/N: E27P201100) | APC201 w/i3-8145UE, 8GB RAM, 64GB eMMC and 12V/60W adapter |

Ordering Information

Standard

| | |
|---|--|
| PICO52RHPGG-i7-8665UE (P/N: E38H52R100) | Pico-ITX SBC with Intel® Core™ i7-8665UE, DisplayPort++, HDMI, LVDS, and 2 GbE LAN |
| PICO52RHPGG-i5-8365UE (P/N: E38H52R101) | Pico-ITX SBC with Intel® Core™ i5-8365UE, DisplayPort++, HDMI, LVDS, and 2 GbE LAN |
| PICO52RHPGG-i3-8145UE (P/N: E38H52R102) | Pico-ITX SBC with Intel® Core™ i3-8145UE, DisplayPort++, HDMI, LVDS, and 2 GbE LAN |
| PICO52RHPGG-Celeron-4305UE (P/N: E38H52R103) | Pico-ITX SBC with Intel® Celeron® 4305UE, DisplayPort++, HDMI, LVDS, and 2 GbE LAN |

Optional

| | |
|---|---|
| PICO52RHPGG-i7-8665UE W/FAN (P/N: E38H52R107) | Pico-ITX SBC with Intel® Core™ i7-8665UE, DisplayPort++, HDMI, LVDS, 2 GbE LAN, and fan |
| PICO52RHPGG-i5-8365UE W/FAN (P/N: E38H52R108) | Pico-ITX SBC with Intel® Core™ i5-8365UE, DisplayPort++, HDMI, LVDS, 2 GbE LAN, and fan |
| PICO52RHPGG-i3-8145UE W/FAN (P/N: E38H52R109) | Pico-ITX SBC with Intel® Core™ i3-8145UE, DisplayPort++, HDMI, LVDS, 2 GbE LAN, and fan |
| PICO52RHPGG-CELERON-4305UE W/FAN (P/N: E38H52R110) | Pico-ITX SBC with Intel® Celeron® 4305UE, DisplayPort++, HDMI, LVDS, 2 GbE LAN, and fan |
| 7128H51R000E | Heatspreader |
| 590000086600 | DC power cable for adapter, L=180 mm |
| 50966124050E | Adapter 12V 60W FSP060-DHAN3 with screw |
| 59380880250E | COM port cable DB9--9x1P, P=125 mm, L=250 mm |
| 594H51R2810E | USB cable 2 x 5P-cut P9 P2.0/2 x USB-4P, L=180 mm |
| 594H3186800E | Buzzer cable 9 x 5.5 mm 2-pin, L=40mm |

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