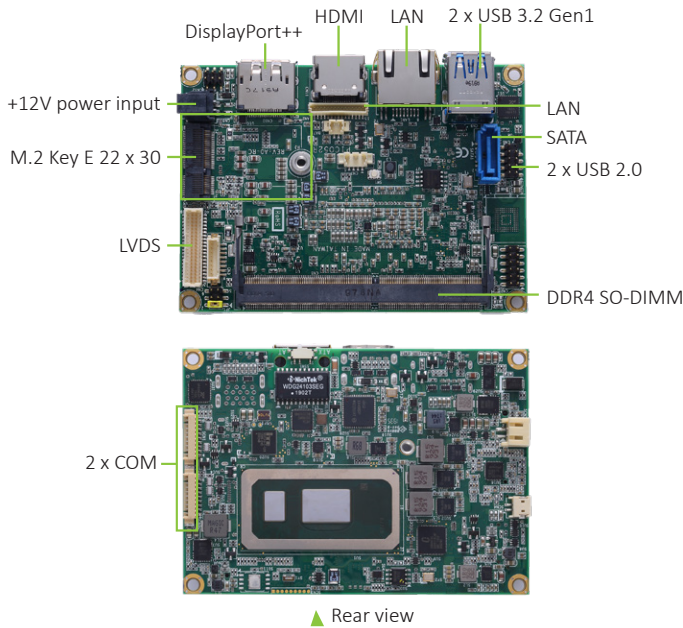


# PIC052R

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
- Intel® AMT 11 supported



## 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 (PCIe x1, USB 2.0 in 22x30)
Battery Lithium	Lithium 3V/220 mAh
Power Input	2 x 2-pin connector +12V DC-in only AT Auto Power On function supported
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	Share 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; supports Wake-on-LAN, PXE Boot ROM 1 x 10/100/1000 Mbps Ethernet with Intel® I210-AT; supports 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 <sup>2</sup> 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
594H3160400E	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, and 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
594H3180400E	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