

# PICO52R NEW

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 16GB of memory
- 2 USB 2.0 and 2 USB 3.0
- 2 GbE LAN
- M.2 Key E
- Intel® AMT 11 supported

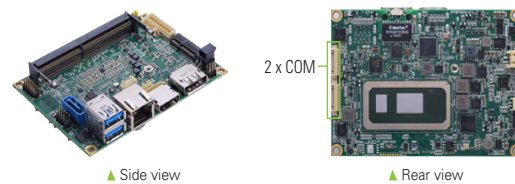
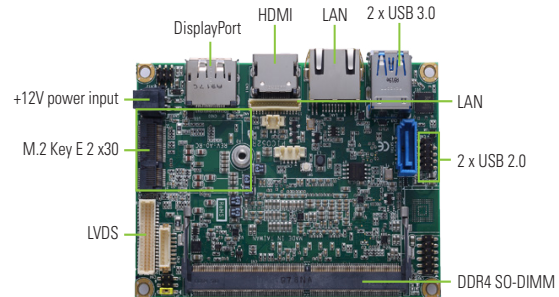


### Core System

CPU	8th gen Intel® Core™ i7/i5/i3 and Celeron® processor onboard
System Memory	1 x 260-pin DDR4-2400 SO-DIMM, up to 16GB
Chipset	N/A
BIOS	AMI
SSD	64GB eMMC (optional)
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	Lithium 3V/220 mAh
Power Input	2 x 2-pin connector +12V DC-in only AT Auto Power On function supported
Power Requirements	Intel® i7-8665UE @1.7 GHz 16GB DDR4, max. RMS. +12V@2.9A Intel® i5-8365UE @1.6 GHz 16GB DDR4, max. RMS. +12V@2.7A Intel® i3-8145UE @2.2 GHz 16GB DDR4, max. RMS. +12V@2.3A Intel® Celeron® 4305UE @2.0 GHz 16GB DDR4, max. RMS. +12V@2.0A
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	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® i211-AT; supports Wake-on-LAN, PXE Boot ROM
Audio	N/A
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 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 DisplayPort 1 x HDMI 1 x LVDS; 18/24-bit single/dual channel

### Packing List

Accessories	
594H3160400E	Power cable, L=100mm
59429070600E	SATA power cable 2P, P=2.0, L=200 mm

### Ordering Information

Standard	
PICO52RPPGG-i7-8665UE (P/N: E38H52R100)	8th gen Intel® Core™ i7-8665UE Pico-ITX SBC with DisplayPort, HDMI, LVDS, and 2 GbE LAN
PICO52RPPGG-i5-8365UE (P/N: E38H52R101)	8th gen Intel® Core™ i5-8365UE Pico-ITX SBC with DisplayPort, HDMI, LVDS, and 2 GbE LAN
PICO52RPPGG-i3-8145UE (P/N: E38H52R102)	8th gen Intel® Core™ i3-8145UE Pico-ITX SBC with DisplayPort, HDMI, LVDS, and 2 GbE LAN
PICO52RPPGG-Celeron-4305UE (P/N: E38H52R103)	8th gen Intel® Celeron® 4305UE Pico-ITX SBC with DisplayPort, HDMI, LVDS, and 2 GbE LAN

Optional	
PICO52RPPGG-i7-8665UE W/FAN (P/N: E38H52R107)	8th gen Intel® Core™ i7-8665UE Pico-ITX SBC with DisplayPort, HDMI, LVDS, 2 GbE LAN and fan
PICO52RPPGG-i5-8365UE W/FAN (P/N: E38H52R108)	8th gen Intel® Core™ i5-8365UE Pico-ITX SBC with DisplayPort, HDMI, LVDS, 2 GbE LAN and fan
PICO52RPPGG-i3-8145UE W/FAN (P/N: E38H52R109)	8th gen Intel® Core™ i3-8145UE Pico-ITX SBC with DisplayPort, HDMI, LVDS, 2 GbE LAN and fan
PICO52RPPGG-CELERON-4305UE W/FAN (P/N: E38H52R110)	8th gen Intel® Celeron® 4305UE Pico-ITX SBC with 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

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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