

# PICO50R NEW

Pico-ITX SBC with 6th Gen Intel® Core™ i7/i5/i3 and Celeron® Processor, DisplayPort, LVDS and 2 GbE LAN

## Features

- 6th gen 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



▲ Assembly view



### Core System

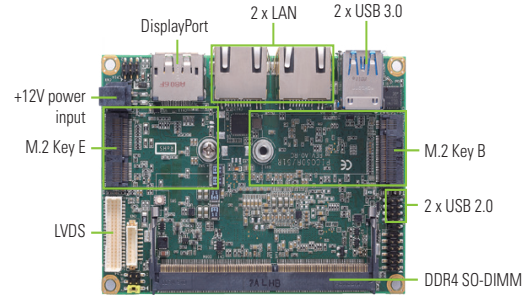
CPU	6th gen Intel® Core™ i7/i5/i3 and Celeron® processor onboard
System Memory	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB
Chipset	SoC integrated
BIOS	AMI
SSD	Refer to ordering information
Watchdog Timer	65535 levels, 1 to 65536 sec.
Expansion Interface	1 x M.2 Key E (PCIe x1, USB 2.0 in 22x30)
Battery Lithium	Lithium 3V/220 mAh
Power Input	2 x 2-pin connector +12V DC-in only AT Auto Power On function supported
Power Requirements	Intel® i7-6600U @2.6 GHz 8GB DDR4 max. RMS. +12V@2.8A Intel® i5-6300U @2.4 GHz 8GB DDR4 max. RMS. +12V@2.5A Intel® i3-6100U @2.3 GHz 8GB DDR4 max. RMS. +12V@2.3A Intel® Celeron® 3955U @2.0 GHz 8GB DDR4 max. RMS. +12V@1.9A
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

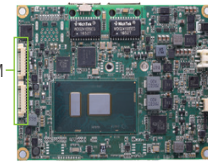
SATA	Refer to ordering information
Hardware Monitoring	Detect CPU/system temperature, voltage and fan speed
Ethernet	1 x 10/100/1000 Mbps Ethernet with Intel® i219-LM; supports Wake-on-LAN, PXE Boot ROM 1 x 10/100/1000 Mbps Ethernet with Intel® i211-AT; supports Wake-on-LAN, PXE Boot ROM
Audio	Refer 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 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 LVDS; 18/24-bit single/dual channel



▲ Side view



▲ Rear view

### Packing List

Accessories	
594H3160400E	Power cable, L=100 mm

### Ordering Information

Standard				
Model	SSD	SATA	Audio	Fan
PICO50RPPG-i7-6600U (P/N: E38H50R100)	1 x M.2 Key B (SATA, USB 2.0, PCIe2 optional) in 22x42	N/A	N/A	No
PICO50RPPG-i5-6300U (P/N: E38H50R101)	1 x M.2 Key B (SATA, USB 2.0, PCIe2 optional) in 22x42	N/A	N/A	No
PICO50RPPG-i3-6100U (P/N: E38H50R102)	1 x M.2 Key B (SATA, USB 2.0, PCIe2 optional) in 22x42	N/A	N/A	No
PICO50RPPG-Celeron-3955U (P/N: E38H50R103)	1 x M.2 Key B (SATA, USB 2.0, PCIe2 optional) in 22x42	N/A	N/A	No

Optional				
Model	SSD	SATA	Audio	Fan
PICO50RPPG-i7-6600U w/fan (P/N: E38H50R105)	1 x M.2 Key B (SATA, USB 2.0, PCIe x2 optional) in 22x42	N/A	N/A	Yes
PICO50RPPG-i5-6300U w/fan (P/N: E38H50R106)	1 x M.2 Key B (SATA, USB 2.0, PCIe x2 optional) in 22x42	N/A	N/A	Yes
PICO50RPPG-i3-6100U w/fan (P/N: E38H50R107)	1 x M.2 Key B (SATA, USB 2.0, PCIe x2 optional) in 22x42	N/A	N/A	Yes
PICO50RPPG-Celeron-3955U w/fan (P/N: E38H50R108)	1 x M.2 Key B (SATA, USB 2.0, PCIe x2 optional) in 22x42	N/A	N/A	Yes
PICO50RPPGA-i7-6600U w/fan (P/N: E38H50R109)	N/A	1 x SATA-600	Mic-in/Line-out	Yes
PICO50RPPGA-i5-6300U w/fan (P/N: E38H50R110)	N/A	1 x SATA-600	Mic-in/Line-out	Yes
PICO50RPPGA-i3-6100U w/fan (P/N: E38H50R111)	N/A	1 x SATA-600	Mic-in/Line-out	Yes
PICO50RPPGA-Celeron-3955U w/fan (P/N: E38H50R112)	N/A	1 x SATA-600	Mic-in/Line-out	Yes
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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