

PICO51R

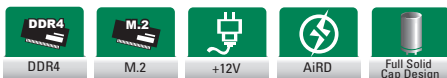
Pico-ITX SBC with 7th Generation Intel® Core™ i7/i5/i3 and Celeron® Processor, DisplayPort, LVDS and 2 GbE LANs

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

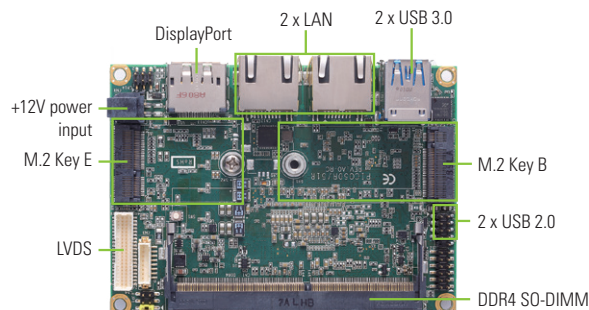
CPU	7th gen Intel® Core™ i7/i5/i3 and Celeron® processor onboard
System Memory	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB
Chipset	SoC integrated
BIOS	AMI
SSD	Refer to ordering information
Watchdog Timer	65535 levels, 1 to 65536 sec.
Expansion Interface	1 x M.2 Key E (PCIe x1, USB 2.0)
Battery Lithium	Lithium 3V/220mAh
Power Input	2 x 2-pin connector +12 VDC-in only AT Auto Power On function supported
Power Requirements	Intel® i7-7600U @2.8 GHz 8GB DDR4 max. RMS. +12V@3.2A Intel® i5-7300U @2.6 GHz 8GB DDR4 max. RMS. +12V@2.6A Intel® i3-7100U @2.4 GHz 8GB DDR4 max. RMS. +12V@2.3A Intel® Celeron® 3965U @2.2 GHz 8GB DDR4 max. RMS. +12V@1.6A
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

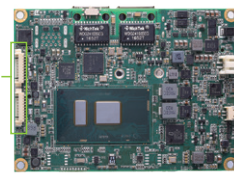
SATA	Refer to ordering information
Hardware Monitoring	Detect CPU/system temperature, voltage and fan speed
Ethernet	1 x 10/100/1000 Mbps Ethernet with Intel® i219-LM; supports Wake-on-LAN, PXE Boot ROM 1 x 10/100/1000 Mbps Ethernet with Intel® i211-AT; supports Wake-on-LAN, PXE Boot ROM
Audio	Refer 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 I²C
Others	N/A
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 1 x DisplayPort



▲ Side view



▲ Rear view

Packing List

594H3160400E	Power cable, L=100 mm
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Ordering Information

Standard

Model	SSD	SATA	Audio	Fan
PICO51RPGG-i7-7600U (P/N: E38H51R100)	1 x M.2 Key B (SATA, USB2.0, PCIe2 optional)	N/A	N/A	No
PICO51RPGG-i5-7300U (P/N: E38H51R102)	1 x M.2 Key B (SATA, USB2.0, PCIe2 optional)	N/A	N/A	No
PICO51RPGG-i3-7100U (P/N: E38H51R103)	1 x M.2 Key B (SATA, USB2.0, PCIe2 optional)	N/A	N/A	No
PICO51RPGG-Celeron-3965U (P/N: E38H51R101)	1 x M.2 Key B (SATA, USB2.0, PCIe2 optional)	N/A	N/A	No

Optional

Model	SSD	SATA	Audio	Fan
PICO51RPGG-i7-7600U w/fan (P/N: E38H51R104)	1 x M.2 Key B (SATA, USB 2.0, PCIe x2 optional)	N/A	N/A	Yes
PICO51RPGG-i5-7300U w/fan (P/N: E38H51R106)	1 x M.2 Key B (SATA, USB 2.0, PCIe x2 optional)	N/A	N/A	Yes
PICO51RPGG-i3-7100U w/fan (P/N: E38H51R107)	1 x M.2 Key B (SATA, USB 2.0, PCIe x2 optional)	N/A	N/A	Yes
PICO51RPGG-Celeron-3965U w/fan (P/N: E38H51R105)	1 x M.2 Key B (SATA, USB 2.0, PCIe x2 optional)	N/A	N/A	Yes
PICO51RPGGA-i7-7600U w/fan (P/N: E38H51R108)	N/A	1 x SATA-600	Mic-in/Line-out	Yes
PICO51RPGGA-i5-7300U w/fan (P/N: E38H51R110)	N/A	1 x SATA-600	Mic-in/Line-out	Yes
PICO51RPGGA-i3-7100U w/fan (P/N: E38H51R111)	N/A	1 x SATA-600	Mic-in/Line-out	Yes
PICO51RPGGA-Celeron-3965U w/fan (P/N: E38H51R109)	N/A	1 x SATA-600	Mic-in/Line-out	Yes
7128H51R000E	Heatspreader			
594H3180400E	DC power cable 4P to Jack, L=180 mm			
50966124050E	Adaptor 12V 60W FSP060-DHAN3 with screw			
59380880250E	COM Port Cable DB9-9x1P, P=125 mm, L=250 mm			
594H51R2800E	USB cable 2 x 5P-cut P9 P2.0/2 x USB-4P, L=180 mm			