

# PICO511

Pico-ITX SBC with 7th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, LVDS and GbE LAN

## Features

- 7th gen Intel® Core™ i7/i5/i3 & Celeron® processor
- 1 DDR4 SO-DIMM, up to 16GB
- 2 PCI Express Mini Card slots
- Intel® AMT 11 supported



▲ Assembly view



## Core System

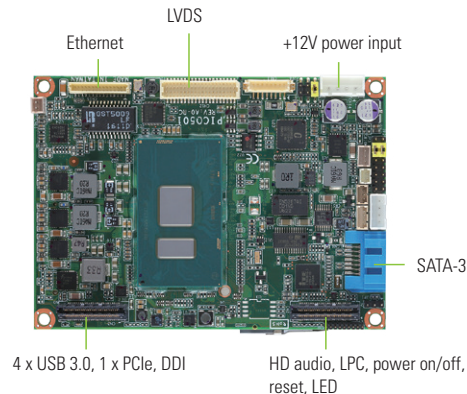
|                     |                                                                                                                                                                                                                                                           |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CPU                 | 7th gen Intel® i7/i5/i3 & Celeron® processor onboard                                                                                                                                                                                                      |
| System Memory       | 1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB                                                                                                                                                                                                                 |
| Chipset             | N/A                                                                                                                                                                                                                                                       |
| BIOS                | AMI                                                                                                                                                                                                                                                       |
| SSD                 | N/A                                                                                                                                                                                                                                                       |
| Watchdog Timer      | 65535 levels, 1 ~ 65535 sec.                                                                                                                                                                                                                              |
| Expansion Interface | 1 x full-size PCI Express Mini Card slot with mSATA supported<br>1 x half-size PCI Express Mini Card slot<br>1 x PCIe1, 1 x LPC, 1 x DDI, 4 x USB 3.0, 1 x HD audio and<br>1 x SMBus (through expansion connector)                                        |
| Battery Lithium     | Lithium 3V/220mAh                                                                                                                                                                                                                                         |
| Power Input         | 1 x 4-pin connector<br>+12V DC-in only<br>AT Auto Power On function supported                                                                                                                                                                             |
| Power Requirements  | Intel® i7-7600U @ 2.8 GHz 16GB DDR4 max. RMS. +12V @ 2.5A<br>Intel® i5-7300U @ 2.6 GHz 16GB DDR4 max. RMS. +12V @ 2.3A<br>Intel® i3-7100U @ 2.4 GHz 16GB DDR4 max. RMS. +12V @ 2.2A<br>Intel® Celeron®-3965U @ 2.2 GHz 16GB DDR4 max. RMS.<br>+12V @ 1.7A |
| Size                | 100 x 72 mm                                                                                                                                                                                                                                               |
| Board Thickness     | 1.6 mm                                                                                                                                                                                                                                                    |
| Temperature         | -20°C ~ +70°C (-4°F ~ +158°F), operation                                                                                                                                                                                                                  |
| Relative Humidity   | 10% ~ 95% relative humidity, non-condensing                                                                                                                                                                                                               |

## I/O

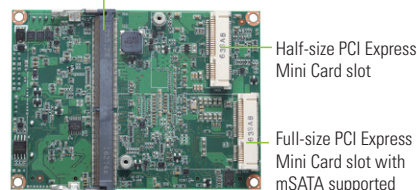
|                        |                                                                                  |
|------------------------|----------------------------------------------------------------------------------|
| MIO                    | N/A                                                                              |
| SATA                   | 1 x SATA-600                                                                     |
| Hardware Monitoring    | Detect CPU/system temperature, voltage and fan speed                             |
| Ethernet               | 1 port 10/100/1000 Mbps supports Wake-on-LAN,<br>PXE Boot ROM with Intel® i219LM |
| Audio                  | N/A                                                                              |
| USB                    | 1 x USB 2.0                                                                      |
| SMBus/I <sup>2</sup> C | Yes, for advanced monitoring/control                                             |
| Digital I/O            | N/A                                                                              |
| TPM                    | ST ST33TPM12LPC with TPM 1.2 compliant                                           |

## Display

|                   |                                         |
|-------------------|-----------------------------------------|
| Chipset           | Intel® integrated Gfx graphic engine    |
| Memory Size       | Share system memory                     |
| Display Interface | 1 x LVDS; 18/24-bit single/dual channel |



DDR4 SO-DIMM



▲ Rear view

## Packing List

### Standard

Quick installation guide, user's manual/utility CD and accessories

### Accessories

| Part Number  | Description       | Qty |
|--------------|-------------------|-----|
| 8593A071010  | AX93A07 I/O board | 1   |
| 59403208000E | SATA cable        | 1   |
| 594P8800600E | SATA power cable  | 1   |
| 594P8802810E | USB cable         | 1   |
| 59190400500E | Fan cable         | 1   |
| 5078H511000E | Heatspreader      | 1   |
| 5078H500100E | Cooler            | 1   |

## Ordering Information

### Standard

|                         |                                                                        |                                                         |
|-------------------------|------------------------------------------------------------------------|---------------------------------------------------------|
| PICO511LG-i7-7600U      | Pico-ITX SBC with Intel® Core™ i7-7600U processor<br>(P/N: E38H511103) | (2.8 ~ 3.9 GHz, 4MB cache, 15W), LVDS, 1 GbE LAN, 1 USB |
| PICO511LG-i5-7300U      | Pico-ITX SBC with Intel® Core™ i5-7300U processor<br>(P/N: E38H511102) | (2.6 ~ 3.5 GHz, 3MB cache, 15W), LVDS, 1 GbE LAN, 1 USB |
| PICO511LG-i3-7100U      | Pico-ITX SBC with Intel® Core™ i3-7100U processor<br>(P/N: E38H511101) | (2.4 GHz, 3MB cache, 15W), LVDS, 1 GbE LAN, 1 USB       |
| PICO511LG-Celeron-3965U | Pico-ITX SBC with Intel® Celeron® 3965U processor<br>(P/N: E38H511100) | (2.2 GHz, 2MB cache, 15W), LVDS, 1 GbE LAN, 1 USB       |

### Optional

|         |                                                                                 |                       |
|---------|---------------------------------------------------------------------------------|-----------------------|
| AX93A00 | I/O board for 1 x RS-232/422/485, 1 x RS-232, 4 x USB 3.0,<br>(P/N: E393A00100) | 1 x VGA, 1 x Audio    |
| AX93A01 | I/O board for 1 x RS-232/422/485, 1 x RS-232, 4 x USB 3.0,<br>(P/N: E393A01100) | 1 x HDMI, 1 x GbE LAN |
| AX93A02 | I/O board for 1 x RS-232/422/485, 1 x RS-232, 4 x USB 3.0,<br>(P/N: E393A02100) | 1 x Audio             |
| AX93A09 | I/O board for 1 x RS-232/422/485, 1 x RS-232, 4 x USB 2.0,<br>(P/N: E393A09100) | 1 x Audio             |