



## EMX-SKLUP

### 6th Gen Intel® Core™ SoC i7/i5/i3 & Celeron Processor Thin Mini ITX Motherboard

- > Onboard 6th Gen. Intel® Core™ SoC i7/i5/i3 & Celeron® BGA Processor
- > 2 x 260-pin DDR4 2133 MHz SO-DIMM supports up to 32GB
- > DP++, HDM/DP, Dual channel 18/24-bits LVDS
- > 1 x Intel® I211AT PCIe Gigabit Ethernet
- > 1 x Intel® I219LM Gigabit Ethernet PHY
- > Realtek ALC892 Audio Codec
- > TI TPA3113D2PWP Stereo Class-D 6W x 2 Audio Amplifier
- > 1 x M.2 Type B 3042/2242/2260/2280, 1 x M.2 Type A, 1 x SIM card Slot, 1 x PCIe
- > 2 x SATA III, 2 x SATA Power, 4 x USB 2.0, 4 x USB 3.0
- > 4 x RS232, 2 x RS232/422/485, 16-bit GPIO
- > Mic-in, Line-out, 1 S/PDIF, SD card slot, Onboard Infineon SLB9665 TPM 2.0

**Spec**

| System                       |  |
|------------------------------|--|
| <b>Processor</b>             | 6th Gen Intel® Core™ i7-6600U, 2-Core, 2.6GHz processor<br>6th Gen Intel® Core™ i5-6300U, 2-Core, 2.4GHz processor<br>6th Gen Intel® Core™ i3-6100U, 2-Core, 2.3GHz processor<br>6th Gen Intel® Celeron™ 3955U, 2-Core, 2.0GHz processor |
| <b>System Memory</b>         | 2 x 260-pin DDR4 2133 MHz SO-DIMM supports up to 32GB  |
| <b>I/O Chip</b>              | EC ITE IT8528E   |
| <b>BIOS</b>                  | AMI 128Mbit SPI BIOS   |
| <b>Watchdog Timer</b>        | H/W Reset: 1sec. ~ 65535sec./min. and 1sec. or 1min./step  |
| <b>H/W Status Monitor</b>    | Monitoring System Temperature and Voltage with Auto Throttling Control   |
| Expansion                    |  |
| <b>Expansion</b>             | 1 x PCIe<br>1 x M.2 Type B 3042/2242/2260/2280, 1 x M.2 Type A<br>1 x SD card slot Supports SD/SDHC Card<br>1 x SIM card slot  |
| I/O                          |  |
| <b>USB</b>                   | 4 x USB 2.0<br>4 x USB 3.0   |
| <b>SATA</b>                  | 2 x SATA Power<br>2 x SATA III   |
| <b>COM Port</b>              | 4 x RS232<br>2 x RS232/422/485   |
| <b>DIO</b>                   | 1 x 16-bit GPIO  |
| <b>Other</b>                 | 1 x S/PDIF   |
| Display                      |  |
| <b>Chipset</b>               | Intel® 6th Gen U series SoC integrated Graphics  |
| <b>Resolution</b>            | DP: 4096 x 2160 @ 60Hz (1 x HDM/DP, 1 x DP++)<br>HDMI: 3840 x 2160 @ 30Hz<br>LVDS: 1920 x 1080 @ 60Hz (Chrontel. CH7511B eDP to LVDS Converter) Co-lay eDP 1.3: 4096x2160 BOM optional   |
| <b>LVDS</b>                  | 2CH 18/24bits LVDS 1920 x 1080<br>Chrontel. CH7511B eDP to LVDS Converter  |
| <b>Multiple Display</b>      | DP++ + HDM/DP++ + LVDS   |
| Audio                        |  |
| <b>Chipset</b>               | Realtek ALC892 supports 2-CH   |
| <b>Audio Interface</b>       | Mic-in, Line-out   |
| <b>Audio Amplifier</b>       | 2 x Stereo Class-D 6W Audio Amplifier  |
| Ethernet                     |  |
| <b>Chipset</b>               | 1 x Intel® I219LM Gigabit Ethernet PHY 1 x Intel® I211AT PCIe Gigabit Ethernet   |
| <b>Ethernet Interface</b>    | 10/100/1000 Base-Tx GbE compatible   |
| <b>LAN Port</b>              | 2 x RJ45   |
| Mechanical & Environmental   |  |
| <b>Power Requirement</b>     | +12V~24V   |
| <b>Power Type</b>            | AT/ATX   |
| <b>Operating Temperature</b> | 0 ~ 60°C (32 ~ 140°F)  |
| <b>Storage Temperature</b>   | -40 ~ 75°C (-40 ~ 167°F)   |
| <b>Operating Humidity</b>    | 0 ~ 90% Relative Humidity, Non-condensing  |
| <b>Dimension (L x W)</b>     | 6.69" x 6.69" (170mm x 170mm)  |
| <b>Weight</b>                | 0.88lbs (0.4Kgs)   |



[+ Ordering](#)

EMX-SKLUP-6600-A1R  
EMX-SKLUP-6300-A1R  
EMX-SKLUP-6100-A1R  
EMX-SKLUP-3955-A1R

Intel® 6th Gen Core™ SoC i7/i5/i3 & Celeron® BGA Processor Thin Mini ITX Motherboard



## 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.

### US

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +1 347 719 4508  
Support: +1 347 719 4508

1309 Coffeen Ave  
Ste 1200  
Sheridan  
WY 82801  
USA

### EMEA

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +44 (0)1785 879 050  
Support: +44 (0)1785 879 050

Unit A5 Douglas Park  
Stone Business Park  
Stone  
ST15 0YJ  
United Kingdom

VAT Number: 120 9546 28  
Business Registration Number: 07699660