



## 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++, HDMI/DP, Dual channel 18/24-bits LVDS
- › 1 x Intel® I211AT PCI-e Gigabit Ethernet
- › 1 x Intel® I219LM Gigabit Ethernet PHY
- › Realtek ALC888S 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 PCI-e
- › 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/PIDF, SD card slot, Onboard Infineon SLB9665 TPM 2.0
- › Optional eMMC
- › DC in +12V~24V

#### Spec

System Information	
<b>Processor</b>	6th Gen Intel® Core™ i7-6600U, 2-Core, 2.6GHz processor 6th Gen Intel® Core™ i5-6300U, 2-Core, 2.4GHz processor 6th Gen Intel® Core™ i3-6100U, 2-Core, 2.3GHz processor 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 Chipset</b>	EC iTE IT8528E
<b>BIOS Information</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 PCI-e 1 x M.2 Type B 3042/2242/2260/2280, 1 x M.2 Type A 1 x SD card slot Supports SD/ SDHC Card 1 x SIM card slot
I/O	
<b>USB Port</b>	4 x USB 2.0 4 x USB 3.0
<b>COM Port</b>	4 x RS232 2 x RS232/422/485
<b>SATA</b>	2 x SATA Power 2 x SATA III
<b>DIO</b>	1 x 16-bit GPIO
<b>Other</b>	1 x S/PDIF
Display	
<b>Graphic Chipset</b>	Intel® 6th Gen U series SoC integrated Graphics
<b>Spec. &amp; Resolution</b>	DP: 4096 x 2160 @ 60Hz (1 x HDMI/DP, 1 x DP++) HDMI: 3840 x 2160 @ 30Hz LVDS: 1920 x 1080 @ 60Hz (Chrontel. CH7511B eDP to LVDS Converter) Co-lay eDP 1.3: 4096x2160 BOM optional
<b>Multiple Display</b>	DP++ + HDMI/DP++ + LVDS
<b>LVDS</b>	2CH 18/24bits LVDS 1920 x 1080 Chrontel. CH7511B eDP to LVDS Converter
Audio	
<b>Audio Codec</b>	Realtek ALC888S 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>LAN Chipset</b>	1 x Intel® I219LM Gigabit Ethernet PHY 1 x Intel® I211AT PCI-e Gigabit Ethernet
<b>Ethernet Interface</b>	10/100/1000 Base-Tx GbE compatible
<b>LAN Port</b>	2 x RJ45
Mechanical & Environmental	
<b>Operating Temperature</b>	0 ~ 60°C (32 ~ 140°F)
<b>Storage Temperature</b>	-40 ~ 75°C (-40 ~ 167°F)
<b>Operating Humidity</b>	40°C @ 95% Relative Humidity, Non-condensing
<b>Weight</b>	0.88lbs (0.4Kgs)
<b>Power Requirement</b>	+12V~24V
<b>Power Mode</b>	AT/ATX
<b>Dimension (L x W)</b>	6.69" x 6.69" (170mm x 170mm)
Ordering Information	
<b>Ordering Information</b>	EMX-SKLUP-6600-B1R EMX-SKLUP-6300-B1R EMX-SKLUP-6100-B1R EMX-SKLUP-3955-B1R  Intel® 6th Gen. Core™ SoC i7/i5/i3 & Celeron®BGA Processor Thin Mini ITX Motherboard

