



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/PIDF, SD card slot, Onboard Infineon SLB9665 TPM 2.0

Spec

System	
Processor	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
System Memory	2 x 260-pin DDR4 2133 MHz SO-DIMM supports up to 32GB
I/O Chip	EC ITE IT8528E
BIOS	AMI 128Mbit SPI BIOS
Watchdog Timer	H/W Reset: 1sec. ~ 65535sec./min. and 1sec. or 1min./step
H/W Status Monitor	Monitoring System Temperature and Voltage with Auto Throttling Control
Expansion	
Expansion	1 x PCIe 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	
USB	4 x USB 2.0 4 x USB 3.0
SATA	2 x SATA Power 2 x SATA III
COM Port	4 x RS232 2 x RS232/422/485
DIO	1 x 16-bit GPIO
Other	1 x S/PIDF
Display	
Chipset	Intel® 6th Gen U series SoC integrated Graphics
Resolution	DP: 4096 x 2160 @ 60Hz (1 x HDM/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
LVDS	2CH 18/24bits LVDS 1920 x 1080 Chrontel. CH7511B eDP to LVDS Converter
Multiple Display	DP++ + HDM/DP++ + LVDS
Audio	
Chipset	Realtek ALC892 supports 2-CH
Audio Interface	Mic-in, Line-out
Audio Amplifier	2 x Stereo Class-D 6W Audio Amplifier
Ethernet	
Chipset	1 x Intel® I219LM Gigabit Ethernet PHY 1 x Intel® I211AT PCIe Gigabit Ethernet
Ethernet Interface	10/100/1000 Base-Tx GbE compatible
LAN Port	2 x RJ45
Mechanical & Environmental	
Power Requirement	+12V~24V
Power Type	AT/ATX
Operating Temperature	0 ~ 60°C (32 ~ 140°F)
Storage Temperature	-40 ~ 75°C (-40 ~ 167°F)
Operating Humidity	0 ~ 90% Relative Humidity, Non-condensing
Dimension (L x W)	6.69" x 6.69" (170mm x 170mm)
Weight	0.88lbs (0.4Kgs)



[+ Ordering](#)

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

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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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