



## EMX-SKLGP

### 6th/7th Gen Intel® Core™ SoC i7/i5/i3 & Celeron Processor Thin Mini ITX Motherboard

- > 2 x 260-pin DDR4 SO-DIMM Socket, Supports Up to 32GB
- > 1 x VGA, 1 x HDMI, 2 x Dual-channel LVDS
- > 1 x Intel® i211AT & 1 x Intel® i219LM Gigabit Ethernet
- > 4 x USB 3.0, 4 x USB 2.0, 2 x RS-232/422/485, 4 x RS-232, 16-bit GPIO
- > 1 x M.2 Key A, 1 x Mini-PCIe
- > 1 x PCIe\*4 Gold Finger (1 x SMBUS, 1 x USB2.0, 1 x PCIe\*4 or 4 x PCIe\*1)
- > Onboard Infineon SLB9665 TPM 2.0
- > DC in +12~24V

#### Spec

System	
<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® Core™ 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 Mini PCI-e 1 x M.2 Key A 2230
I/O	
<b>USB</b>	4 x USB 2.0 4 x USB 3.0
<b>SATA</b>	1 x SATA Power 1 x SATA III
<b>COM Port</b>	4 x RS232 2 x RS232/422/485
<b>DIO</b>	1 x 16-bit GPIO
Display	
<b>Chipset</b>	Intel® 6th Gen U series SoC integrated Graphics
<b>Resolution</b>	HDMI: 1.4b: 3840 x 2160 @ 30 Hz, 2560 x 1600 @ 30 Hz VGA: 2048 x 1536 @ 50Hz
<b>LVDS</b>	2CH 18/24bits LVDS 1920 x 1080 1 x Dual channel 18/24-bits LVDS1 (Chrontel CH7511B eDP to LVDS1) 1 x Dual channel 18/24-bits LVDS2 (Chrontel CH7511B DP to LVDS2) (Chrontel. CH7511B eDP to LVDS Converter) Co-lay eDP 1.3: 4096x2160 BOM optional
<b>Multiple Display</b>	1 x VGA, 1 x HDMI, 2 x Dual-channel 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
DC In / Out Connector	
<b>Input Power Connector</b>	12~24V
Mechanical & Environmental	
<b>Power Requirement</b>	+12V~24V
<b>Power Type</b>	AT/ATX mode switchable through jumper
<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)
<b>Form-Factor</b>	Mini-ITX
Power Requirement	
<b>Power Mode</b>	AT/ATX mode switchable through jumper

#### Ordering

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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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