



## EMS-SKLU-GPIO

### 6th Gen Intel® Core™ Processor i7/i5/i3/Celeron Fanless Rugged Embedded System

- > Onboard 6th Gen Intel® Core™ SoC i7/i5/i3/Celeron BGA Processor
- > One 260-pin SODIMM Socket Up to 16GB DDR4 2133MHz SDRAM
- > 44-bit GPIO, 32-bit Supports 1.5KV Isolation
- > 6-LAN port, 4 Ports Support 802.3af PSE
- > Expansion Slot Supports 1 Mini PCIe Slot, 1 M.2,
- > DIN-Rail Support
- > Fanless Operating from -20 ~ 50°C, Support IP50
- > Power Input: Typical 12/24 Vdc (9-32V)
- > Supports Intel® iAMT 11.0, TPM2.0 , Turbo Boost Technology, vPro, Wake on LAN
- > Service Window, Easy to Install M.2, Memory and Mini PCIe Module

#### + 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>	1 x 260-Pin DDR4 2133MHz SO-DIMM up to 16 GB
<b>Watchdog Timer</b>	H/W Reset, 1sec. ~ 65535sec.
<b>H/W Status Monitor</b>	Monitoring CPU & System Temperature and Voltage
<b>SBC</b>	EBM-SKLUS + AUX-M08
Expansion	
<b>Expansion</b>	1 x Mini PCIe, support PCIe/USB2.0 1 x M.2 2242/3042, B-Key, supports SATA/ PCIe1/ USB3.0
Storage	
<b>Storage</b>	1 x M.2 2242 (SATA)
I/O	
<b>USB Port</b>	2 x USB 3.0 1 x USB 2.0
<b>COM Port</b>	2 x RS-232/422/485 (Jumper), supports auto-flow
<b>GPIO</b>	1 x 44bit GPIO, 32bit w/1.5KV isolation 1 x 12bit GPIO
<b>Other</b>	1 x SMBus 2 x PS2/ KB & MS 2 x Knockouts for Antenna Mounting
Display	
<b>Graphic Chipset</b>	Intel® Skylake SoC integrated Graphics
<b>Spec. &amp; Resolution</b>	DP: Max. resolution 4096x2304 @ 60Hz
Audio	
<b>Audio Codec</b>	Realtek ALC888S supports 2.1-CH
<b>Audio Interface</b>	Mic-In, Line-In and Line-Out
Ethernet	
<b>LAN Chipset</b>	1 x Intel® I211AT 1 x Intel® I219LM 4 x Intel® I210AT
<b>Ethernet Interface</b>	10/100/1000 Base-Tx GbE compatible
<b>LAN Port</b>	4 x Powered LAN, 2 x RJ-45
Power Requirement	
<b>DC Input</b>	Power input: Typical 12/24Vdc(+9V ~ +32V) TVS component for surge protection Reverse current/voltage protection
<b>DC Input Connector</b>	3-Pin Terminal Block
<b>ACPI</b>	Single Power ATX Support S0, S3, S4, S5 ACPI5.0 Compliant
<b>Power Mode</b>	AT/ATX (ATX is default setting)
<b>Adapter</b>	Optional AC-DC Adapter
Mechanical & Environmental	
<b>Operating Temperature</b>	(w/SSD), ambient w/ air flow -20°C ~ 50°C (14°F ~ 122°F)
<b>Storage Temperature</b>	-40°C ~ 75°C (-40°F ~ 167°F)
<b>Operating Humidity</b>	40°C @ 95% Relative Humidity, Non-condensing
<b>Dimension (W x L x H)</b>	9.45" x 6.2" x 2.95" (240mm x 158mm x 75mm)



<b>Vibration Test</b>	With SSD : 5Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 1hr/axis
<b>Shock Test</b>	With SSD : 50Grms, IEC 60068-2-27, Half Sine, 11ms
<b>Mounting Kit</b>	Din-Rail kit (Standard)
<b>Construction</b>	Aluminum + Metal
<b>Software Support</b>	
<b>OS Information</b>	Win 10 / Win 8.1 / Win 7 / Linux
<b>Ordering Information</b>	
<b>Ordering Information</b>	EMS-SKLU-66-B1-AR 6th Gen Intel®Celeron Processor i7-6600U Fanless Rugged Embedded System with 4 Powered LAN+ 44-bit GPIO EMS-SKLU-63-B1-AR 6th Gen Intel®Celeron Processor i5-6300U Fanless Rugged Embedded System with 4 Powered LAN+ 44-bit GPIO EMS-SKLU-61-B1-AR 6th Gen Intel®Celeron Processor i3-6100U Fanless Rugged Embedded System with 4 Powered LAN+ 44-bit GPIO EMS-SKLU-39-B1-AR 6th Gen Intel®Celeron Processor 3955U Fanless Rugged Embedded System with 4 Powered LAN+ 44-bit GPIO