



## EMS-SKLU-Marine

6th Gen Intel®Core™ Processor i7/i5/i3/Celeron, Marine Fanless Rugged Embedded System with 4 COM Isolations



- > Onboard 6th Gen Intel® Core™ SoC i7/i5/i3/Celeron BGA Processor
- > One 260-pin SODIMM Socket Up to 16GB DDR4 2133MHz SDRAM
- > 4 COM port support 2.5KV Isolation Protection
- > Expansion Slot Supports 1 Mini PCIe Slot, 1 M.2, 1 IET Interface
- > Fanless Operating from -20 ~ 60°C, Support IP50
- > Power Input :Typical 12/24Vdc ( +9 ~ +36V )
- > 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
- > IEC EN60945 Certified

### + 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® 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 Board</b>	Monitoring CPU & System Temperature and Voltage EBM-SKLUS
Expansion	
<b>Expansion</b>	1 x Avalue 80-Pin IET Interface 1 x Mini PCIe 1 x M.2 (2242/3042) B-Key
Storage	
<b>Storage</b>	1 x 2.5" Drive Bay 1 x M.2 (SATA)
I/O	
<b>USB</b>	4 x USB 3.0 2 x USB 2.0
<b>COM Port</b>	2 x RS-232/422/485 (Jumper) 4 x RS232/422/485 (BIOS) supports 2.5KV Isolation Protection
<b>DIO</b>	1 x 12bit GPIO
<b>Other</b>	2 x SIM Card Slot 1 x SMBus 2 x PS2/ KB & MS 2 x Knockouts for Antenna Mounting
Display	
<b>Chipset</b>	Intel® Skylake SoC integrated Graphics
<b>Resolution</b>	DP: Max. resolution 4096x2304 @ 60Hz
Audio	
<b>Chipset</b>	Realtek ALC892 supports 2.1-CH
<b>Audio Interface</b>	Mic-In, Line-In and Line-Out
Ethernet	
<b>Chipset</b>	1 x Intel® I211AT 1 x Intel® I219LM
<b>Ethernet Interface</b>	10/100/1000 Base-Tx GbE compatible
<b>LAN Port</b>	2 x RJ-45
Mechanical & Environmental	
<b>Operating Temperature</b>	(w/SSD), ambient w/ air flow -20°C ~ 60°C (-4°F ~ 140°F) (w/HDD), ambient w/ air flow 0°C ~ 40°C (32°F ~ 104°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>Construction</b>	Aluminum + Metal
<b>Mounting Kit</b>	Wall Mount kit (Standard)
<b>Dimension (L x W x H)</b>	9.45" x 5.96" x 2.95" (240mm x 151.5mm x 75mm)
<b>Vibration Test</b>	IEC60945, Clause 8.7 IEC60068-2-6
<b>Shock Test</b>	With SSD : 10Grms, IEC 60068-2-27, Half Sine, 11ms
Certifications	



<b>Certification Information</b>	CE / FCC Class A
<b>Software Support</b>	
<b>OS Information</b>	Win 10 / Win 8.1 / Win 7 / Linux
<b>Power Requirement</b>	
<b>Power Connector</b>	3-Pin Terminal Block
<b>Power Requirement</b>	Power Input: Typical 12/24Vdc (+9V ~ +36V )
<b>ACPI</b>	Single Power ATX Support S0, S3, S4, S5 ACPI 5.0 Compliant
<b>Power Mode</b>	AT/ATX (ATX is default setting)
<b>Adapter</b>	Optional AC-DC Adapter

#### Ordering

EMS-SKLU-66-A1-9R  
6th Gen Intel®Core™ Processor i7, Marine Fanless Rugged Embedded System with 4 COM Isolations

EMS-SKLU-63-A1-9R  
6th Gen Intel®Core™ Processor i5, Marine Fanless Rugged Embedded System with 4 COM Isolations

EMS-SKLU-61-A1-9R  
6th Gen Intel®Core™ Processor i3, Marine Fanless Rugged Embedded System with 4 COM Isolations

EMS-SKLU-39-A1-9R  
6th Gen Intel®Core™ Processor Celeron, Marine Fanless Rugged Embedded System with 4 COM Isolations