



EMS-SKLU-PSE

**6th Gen Intel® Core™ Processor i7/i5/i3/Celeron
Fanless Rugged Embedded System with Powered LAN**

- Onboard 6th Gen Intel® Core™ SoC i7/i5/i3/Celeron BGA Processor
- One 260-pin SODIMM Socket Up to 16GB DDR4 2133MHz SDRAM
- 4x Powered LAN, 1xDP, 2xLAN, 1xCOM1, 4xUSB 3.0, 1xMulti-Function Port (1xGPIO, 1xCOM2, 1xAudio, 1xSMBus, 2xPS2)
- Expansion Slot Supports 1 Mini PCIe Slot, 1 M.2, 1 IET Interface
- Front Access Swappable 2.5" Drive Bay, 2 SIM Card
- Rugged Design for Vibration & Shock Protection
- Fanless Operating from -20 ~ 50°C, Support IP50
- Power Input: Typical 12/24 Vdc
- Supports Intel® iAMT 11.0, TPM2.0, Turbo Boost Technology, vPro, Wake on LAN, RAID 0/1
- Service Window, Easy to Install M.2, Memory and Mini PCIe Module

Spec

-System Information-	
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	1 x 260-Pin DDR4 2133MHz SO-DIMM up to 16 GB
Watchdog Timer	H/W Reset, 1sec. ~ 65535sec.
H/W Status Monitor	Monitoring CPU & System Temperature and Voltage
SBC	EBM-SKLUS + IET-PSEB
Expansion	
Expansion	1 x Mini PCIe 1 x M.2 (2242/3042) B-Key, supports SATA/ PCIe1/ USB3.0
Storage	
Storage	1 x 2.5" Drive Bay 1 x M.2 (SATA)
I/O	
USB Port	4 x USB 3.0
COM Port	2 x RS-232/422/485 (Jumper), supports auto-flow
GPIO	1 x 12bit GPIO
Other	2 x SIM Card Slot 1 x SMBus 2 x PS2/ KB & MS 2 x Knockouts for Antenna Mounting
Display	
Graphic Chipset	Intel® Skylake SoC integrated Graphics
Spec. & Resolution	DP: Max. resolution 4096x2304 @ 60Hz
Audio	
Audio Codec	Realtek ALC888S supports 2.1-CH
Audio Interface	Mic-In, Line-In and Line-Out
Ethernet	
LAN Chipset	EMS-SKLU-PSEBF 1 x Intel® I211AT 1 x Intel® I219LM 4 x Intel® I210IT EMS-SKLU-PSEBT 1 x Intel® I211AT 1 x Intel® I219LM 2 x Intel® I210IT
Ethernet Interface	10/100/1000 Base-Tx GbE compatible
LAN Port	EMS-SKLU-PSEBF 6 x RJ45, 4 ports support IEEE 802.3af, total 60W EMS-SKLU-PSEBT 4 x RJ45, 2 ports support IEEE 802.3at, total 60W
Power Requirement	
DC Input	Power input: Typical 12/24Vdc(+9V ~ +32V) TVS component for surge protection Reverse current/voltage protection
DC Input Connector	3-Pin Terminal Block
ACPI	Single Power ATX Support S0, S3, S4, S5 ACPI5.0 Compliant



Power Mode	AT/ATX (ATX is default setting)
Adapter	Optional AC-DC Adapter (120W)
Mechanical & Environmental	
Operating Temperature	(w/SSD), ambient w/ air flow -10°C ~ 50°C (14°F ~ 122°F) (w/HDD), ambient w/ air flow 0°C ~ 40°C (32°F ~ 104°F)
Storage Temperature	-30°C ~ 70°C (-22°F ~ 158°F)
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Dimension (W x L x H)	9.45" x 5.96" x 2.36" (240mm x 151.5mm x 60mm)
Vibration Test	With SSD : 5Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 1hr/axis
Shock Test	With SSD : 50Grms, IEC 60068-2-27, Half Sine, 11ms
Mounting Kit	Wall Mount kit (Standard)
Construction	Aluminum + Metal
Software Support	
OS Information	Win 10 / Win 8.1 / Win 7 / Linux
Ordering Information	
Ordering Information	Model Name: EMS-SKLU-PSEBF (support 4 port IEEE 802.3af) EMS-SKLU-66-B1-DR 6th Gen Intel®Core™ Processor i7-6600U Fanless Rugged Embedded System with 4 Powered LAN EMS-SKLU-63-B1-DR 6th Gen Intel®Core™ Processor i5-6300U Fanless Rugged Embedded System with 4 Powered LAN EMS-SKLU-61-B1-DR 6th Gen Intel®Core™ Processor i3-6100U Fanless Rugged Embedded System with 4 Powered LAN EMS-SKLU-39-B1-DR 6th Gen Intel®Celeron Processor 3955U Fanless Rugged Embedded System with 4 Powered LAN Model Name: EMS-SKLU-PSEBT (support 2 port IEEE 802.3at) EMS-SKLU-66-B1-ER 6th Gen Intel®Core™ Processor i7-6600U Fanless Rugged Embedded System with 2 Powered LAN EMS-SKLU-63-B1-ER 6th Gen Intel®Core™ Processor i5-6300U Fanless Rugged Embedded System with 2 Powered LAN EMS-SKLU-61-B1-ER 6th Gen Intel®Core™ Processor i3-6100U Fanless Rugged Embedded System with 2 Powered LAN EMS-SKLU-39-B1-ER 6th Gen Intel®Celeron Processor 3955U Fanless Rugged Embedded System with 2 Powered LAN