



## EMS-SKLU-6COM

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
- > 1xDP, 2xLAN, 5xCOM1, 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 ~ 60°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, 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<br>6th Gen Intel® Core™ i5-6300U, 2-Core, 2.4GHz processor<br>6th Gen Intel® Core™ i3-6100U, 2-Core, 2.3GHz processor<br>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 + AUX-M01                                                                                                                                                                                                                      |
| Expansion                  |                                                                                                                                                                                                                                          |
| Expansion                  | 1 x Avalue 80-Pin IET Interface<br>1 x Mini PCIe<br>1 x M.2 (2242/3042) B-Key, supports SATA/ PCIe1/ USB3.0                                                                                                                              |
| Storage                    |                                                                                                                                                                                                                                          |
| Storage                    | 1 x 2.5" Drive Bay<br>1 x M.2 (SATA)                                                                                                                                                                                                     |
| I/O                        |                                                                                                                                                                                                                                          |
| USB Port                   | 2 x USB 2.0<br>4 x USB 3.0                                                                                                                                                                                                               |
| COM Port                   | 6 x RS-232/422/485 (Jumper), supports auto-flow                                                                                                                                                                                          |
| GPIO                       | 1 x 12bit GPIO                                                                                                                                                                                                                           |
| Other                      | 2 x SIM Card Slot<br>1 x SMBus<br>2 x PS2/ KB & MS<br>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<br>supports 2.1-CH                                                                                                                                                                                                       |
| Audio Interface            | Mic-In, Line-In and Line-Out                                                                                                                                                                                                             |
| Ethernet                   |                                                                                                                                                                                                                                          |
| LAN Chipset                | 1 x Intel® I211AT<br>1 x Intel® I219LM                                                                                                                                                                                                   |
| Ethernet Interface         | 10/100/1000 Base-Tx GbE compatible                                                                                                                                                                                                       |
| LAN Port                   | 2 x RJ-45                                                                                                                                                                                                                                |
| Power Requirement          |                                                                                                                                                                                                                                          |
| DC Input                   | Power input: Typical 12/24Vdc(+9V ~ +32V)<br>TVS component for surge protection<br>Reverse current/voltage protection                                                                                                                    |
| DC Input Connector         | 3-Pin Terminal Block                                                                                                                                                                                                                     |
| ACPI                       | Single Power ATX Support S0, S3, S4, S5<br>ACPI 5.0 Compliant                                                                                                                                                                            |
| Power Mode                 | AT/ATX (ATX is default setting)                                                                                                                                                                                                          |
| Adapter                    | Optional AC-DC Adapter                                                                                                                                                                                                                   |
| Mechanical & Environmental |                                                                                                                                                                                                                                          |
| Operating Temperature      | (w/SSD), ambient w/ air flow<br>-20°C ~ 60°C (-4°F ~ 140°F)<br>(w/HDD), ambient w/ air flow<br>0°C ~ 40°C (32°F ~ 104°F)                                                                                                                 |
| Storage Temperature        | -30°C ~ 70°C (-22°F ~ 158°F)                                                                                                                                                                                                             |



|                              |                                                                                                       |
|------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Operating Humidity</b>    | 40°C @ 95% Relative Humidity, Non-condensing                                                          |
| <b>Dimension (W x L x H)</b> | 9.45" x 5.96" x 2.36" (240mm x 151.5mm x 60mm)                                                        |
| <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>          | Wall Mount 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-B1-2R<br>6th Gen Intel®Core™ Processor i7-6600U Fanless Rugged Embedded System with 6 COM |
|                              | EMS-SKLU-63-B1-2R<br>6th Gen Intel®Core™ Processor i5-6300U Fanless Rugged Embedded System with 6 COM |
|                              | EMS-SKLU-61-B1-2R<br>6th Gen Intel®Core™ Processor i3-6100U Fanless Rugged Embedded System with 6 COM |
|                              | EMS-SKLU-39-B1-2R<br>6th Gen Intel®Celeron Processor 3955U Fanless Rugged Embedded System with 6 COM  |

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## Assured Systems

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