



# DATASOUND - LABORATORIES -

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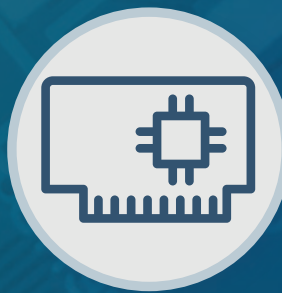
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# SBC-7114

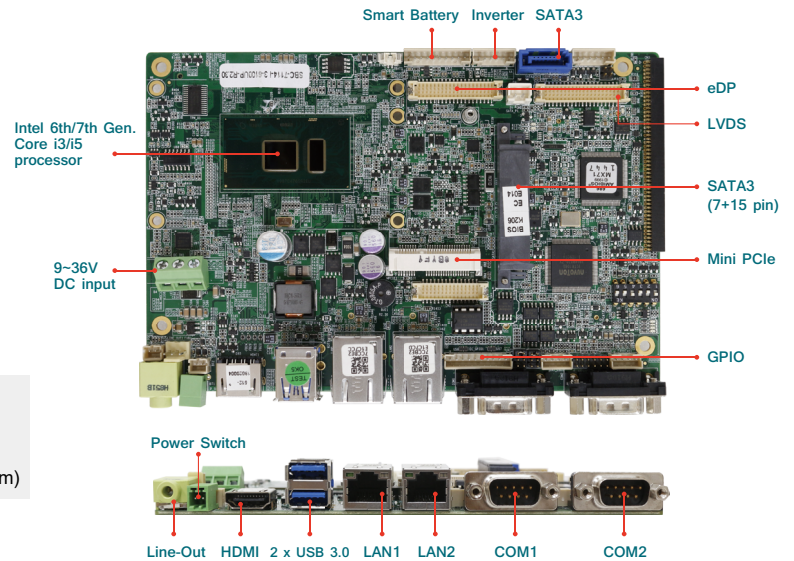
4" EPIC, 6th/7th Gen Intel Core i3/i5/i7 Processors, 1 x DDR4 SO-DIMM, LVDS/DP/HDMI/eD

## Features

- Intel 6th/7th Gen Core i3/i5/i7 Processors
- 1 x SO-DIMM DDR4 2133MHz
- Three Independent Display Support with 4Kx2K
- Support Smart Battery
- Wide Operating Temperature, Support -40°C~85°C
- Wide Range DC 9~36V Input
- TPM 2.0 (Trusted Platform Module) Support

## Packing List

- 1 x SBC-7114 4" SBC
- 1 x Driver CD
- 1 x CR2477 Battery
- 1 x SATA 7+15-Pin to SATA 7-Pin/SATA Power 2-Pin Cable (L=18cm)



## Specifications

### System

|                       |  |
|-----------------------|--|
| <b>Form Factor</b>    | 4" EPIC  |
| <b>Processor</b>      | 6th Generation<br>Intel Core i7-6600U Processor (4M Cache, 2.60 GHz)<br>Intel Core i5-6300U Processor (3M Cache, 2.40 GHz)<br>Intel Core i3-6100U Processor (3M Cache, 2.30 GHz)<br>7th Generation<br>Intel Core i7-7600U Processor (4M Cache, 2.80 GHz)<br>Intel Core i5-7300U Processor (3M Cache, 2.60 GHz)<br>Intel Core i3-7100U Processor (3M Cache, 2.40 GHz) |
| <b>System Chipset</b> | SoC  |
| <b>System Memory</b>  | 1 x 260-Pin SO-DIMM up to 32GB DDR4 2133MHz  |
| <b>BIOS</b>           | AMI/UEFI BIOS  |

### Display

|                           |   |
|---------------------------|---|
| <b>Controller</b>         | Intel HD Graphics Series  |
| <b>eDP Interface</b>      | 2 x 20-Pin header   |
| <b>TTL/LVDS Interface</b> | 1 x 18/24-bit Dual Channel LVDS   |
| <b>HDMI Interface</b>     | 1 x HDMI  |
| <b>Resolution</b>         | Up to 3840 x 2160 for EDP<br>Up to 1920 x 1080 for LVDS<br>Up to 3840 x 2160 for HDMI |

### Mechanical & Environment

|                              |                                    |
|------------------------------|------------------------------------|
| <b>Board Size (L x M)</b>    | 170 mm x 113 mm                    |
| <b>Gross Weight</b>          | 0.5 kg                             |
| <b>Operating Temperature</b> | -20°C~70°C (-4°F~158°F)            |
| <b>Storage Temperature</b>   | -40°C~85°C (-40°F~185°F)           |
| <b>Humidity</b>              | 10%~90%, non-condensing, operating |
| <b>Certificate</b>           | Meet RoHS 2.0/CE/FCC Class A       |

### Expansion

|                  |  |
|------------------|--|
| <b>Expansion</b> | 1 x mini PCIe slot (shared with mSATA) |
|------------------|--|

### Power Management

|                        |                                 |
|------------------------|---------------------------------|
| <b>Power Input</b>     | Wide range DC 9~36V input       |
| <b>Power Connector</b> | 1 x 3-Pin power input connector |

### Ordering Information

|                      |  |
|----------------------|--|
| <b>SBC-7114</b>      | 4" EPIC, 6th/7th Generation, Intel Skylake Core i7/i5/i3 Processors, SoC, SO-DIMM DDR4, DP/HDMI/eDP/LVDS |
| <b>TB-528 Series</b> | I/O Board for SBC-7114   |

### I/O

|                       |  |
|-----------------------|--|
| <b>Super I/O</b>      | Nuvoton NCT6106D   |
| <b>Ethernet</b>       | 2 x PCIe GbE LAN for external by Intel I210AT  |
| <b>USB</b>            | 2 x USB 3.0 external stack ports<br>1 x USB 2.0 via CN1<br>1 x USB 2.0 via CN2<br>2 x USB 2.0 via CN3<br>1 x USB 2.0 internal for mini PCIe  |
| <b>Serial</b>         | 1 x RS-232/RS422/RS485 Selectable by BIOS (COM1), DB-9 Connector on I/O (with Auto flow control)<br>1 x RS-232 (COM2), DB-9 Connector on I/O<br>2 x UART (COM3/4) via CN3 (Header 2 x 30-Pin)<br>2 x RS-422/485 pin header (COM5/6) via CN2 (DF13A-30-Pin) |
| <b>GPIO</b>           | 2 x 8-bit GPIO (4 x DI, 4 x DO) via CN2/CN3  |
| <b>Storage</b>        | 2 x SATA3 Connectors<br>1 x mSATA (Shared with mini PCIe)  |
| <b>Audio</b>          | Support Audio Via Realtek ALC662-VD<br>1 x Audio Phone Jack<br>1 x 2 x 6-Pin header, Line in/Line out/MIC in   |
| <b>Smart Battery</b>  | Support 3 Serial Li battery by 10-Pin header (BAT2)  |
| <b>KB/Mouse</b>       | 1 x PS/2 KB/MS via CN3   |
| <b>Battery</b>        | 1 x 2-Pin header support CR2477 (1000mAh)  |
| <b>Watchdog Timer</b> | Watchdog timeout can be programmable by software support 1~255 sec   |

### Dimension

