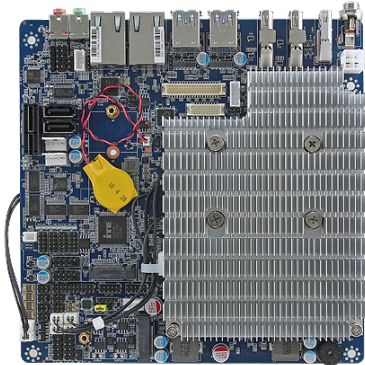




## EMX-KBLU2P

6th/7th Gen Intel® Core™ SoC i7/i5/i3 & Celeron®  
BGA Onboard Processor Thin Mini ITX  
Motherboard

- > Onboard 6th/7th Gen. Intel® Core™ SoC i7/i5/i3 & Celeron® BGA Processor
- > 2 x 260-pin DDR4 2133 MHz SO-DIMM supports up to 32GB
- > 1x DP++, 1x HDMI/DP, 2CH LVDS/co-lay eDP
- > 1 x Intel® I211AT PC-Ie Gigabit Ethernet, 1 x Intel® I219LM Gigabit Ethernet PHY
- > Realtek ALC892 Audio Codec, TI TPA3113D2PWP Stereo Class-D 6W x 2 Audio Amplifier
- > 1 x M.2 Type B 3042/2242/2260/2280, 1 x M.2 Type A 2230 support WiFi module
- > 2 x SATA III, 2 x SATA Power, 4 x USB 2.0, 4 x USB 3.0
- > 4 x RS232, 2 x RS232/422/485, 16-bit GPIO
- > Mic-in, Line-out, 1 S/PIDF

### + Spec

| System                     |                                                                                                                                                                                                                                                                           |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System Memory              | 2 x 260-pin DDR4 2133 MHz SO-DIMM supports up to 32GB                                                                                                                                                                                                                     |
| I/O Chip                   | EC ITE IT8528E                                                                                                                                                                                                                                                            |
| BIOS                       | AMI 128Mbit SPI BIOS                                                                                                                                                                                                                                                      |
| Watchdog Timer             | H/W Reset: 1sec. ~ 65535sec./min. and 1sec. or 1min./step                                                                                                                                                                                                                 |
| H/W Status Monitor         | Monitoring System Temperature and Voltage with Auto Throttling Control                                                                                                                                                                                                    |
| TPM                        | 1 x onboard TPM2.0 & TPM1.2 (optional)                                                                                                                                                                                                                                    |
| Expansion                  |                                                                                                                                                                                                                                                                           |
| Expansion                  | 1 x M.2 Key B 3042/2242/2260/2280 (with 2 x PC-Ie x 1 (default) or 1 x PC-Ie x 2 (By OEM BIOS ME SET), USB 2.0, SATA Signal) with 1 x SIM card slot, support WWAN+GNSS or SSD.<br>1 x M.2 Key A 2230 support WiFi module, 1 x PC-Ie x 1, USB 2.0 Signal)<br>1 x PC-Ie x 1 |
| I/O                        |                                                                                                                                                                                                                                                                           |
| USB                        | 4 x USB 2.0<br>4 x USB 3.0                                                                                                                                                                                                                                                |
| SATA                       | 2 x SATA Power<br>2 x SATA III                                                                                                                                                                                                                                            |
| COM Port                   | 4 x RS232<br>2 x RS232/422/485                                                                                                                                                                                                                                            |
| DIO                        | 1 x 16-bit GPIO                                                                                                                                                                                                                                                           |
| Other                      | 1 x S/PIDF                                                                                                                                                                                                                                                                |
| Display                    |                                                                                                                                                                                                                                                                           |
| Chipset                    | Intel® Processor Graphics                                                                                                                                                                                                                                                 |
| Resolution                 | 1 x HDMI 1.4b: 3840 x 2160 @ 30 Hz, 2560 x 1600 @ 30 Hz<br>2 x DP; DisplayPort 1.2a : 4096x2160 @ 60Hz<br>(1 x HDMI/DP, 1 x DP++)<br>2CH 18/24bits LVDS 1920 x 1080 (Chrontel. CH7511B eDP to LVDS Converter)<br>Co-lay eDP 1.3: 4096x2160 BOM optional                   |
| LVDS                       | 2CH 18/24bits LVDS 1920 x 1080<br>Chrontel. CH7511B eDP to LVDS Converter                                                                                                                                                                                                 |
| Multiple Display           | Triple Display                                                                                                                                                                                                                                                            |
| Audio                      |                                                                                                                                                                                                                                                                           |
| Chipset                    | Realtek ALC892 supports 2-CH                                                                                                                                                                                                                                              |
| Audio Interface            | Mic-in, Line-out                                                                                                                                                                                                                                                          |
| Audio Amplifier            | 2 x Stereo Class-D 6W Audio Amplifier                                                                                                                                                                                                                                     |
| Ethernet                   |                                                                                                                                                                                                                                                                           |
| Chipset                    | 1 x Intel® I219LM Gigabit Ethernet PHY 1 x Intel® I211AT PC-Ie Gigabit Ethernet                                                                                                                                                                                           |
| Ethernet Interface         | 10/100/1000 Base-Tx GbE compatible                                                                                                                                                                                                                                        |
| LAN Port                   | 2 x RJ45                                                                                                                                                                                                                                                                  |
| Mechanical & Environmental |                                                                                                                                                                                                                                                                           |
| Power Requirement          | +12V~24V                                                                                                                                                                                                                                                                  |
| Power Type                 | AT/ATX                                                                                                                                                                                                                                                                    |
| Operating Temperature      | -20~ 70°C (-68 ~ 158°F), with heatsink, under 0.5 m/s air flow speed testing                                                                                                                                                                                              |
| Storage Temperature        | -40 ~ 75°C (-40 ~ 167°F)                                                                                                                                                                                                                                                  |
| Operating Humidity         | 0 ~ 90% Relative Humidity, Non-condensing                                                                                                                                                                                                                                 |
| Dimension (L x W)          | 6.69" x 6.69" (170mm x 170mm)                                                                                                                                                                                                                                             |
| Weight                     | 0.88lbs (0.4Kgs)                                                                                                                                                                                                                                                          |

### + Ordering

6th/7th Gen Intel® Core™ SoC i7/i5/i3 & Celeron®  
BGA Onboard Processor Thin Mini ITX Motherboard  
EMX-KBLU2P-395-A1R  
EMX-KBLU2P-610-A1R  
EMX-KBLU2P-630-A1R  
EMX-KBLU2P-660-A1R  
EMX-KBLU2P-730-A1R  
EMX-KBLU2P-760-A1R

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## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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