



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 HDM/DP, 2CH LVDS/co-lay eDP
- > 1 x Intel® I211AT PCI-e 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/PDIF

+ 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 PCI-e x 1 (default) or 1 x PCI-e x 2 (By OEM BIOS ME SET), USB 2.0, SATA Signal) with 1 x SIM card slot, support WWAN+GNSS or SSD. 1 x M.2 Key A 2230 support WiFi module, 1 x PCI-e x 1, USB 2.0 Signal) 1 x PCI-e x 1
I/O	
USB	4 x USB 2.0 4 x USB 3.0
SATA	2 x SATA Power 2 x SATA III
COM Port	4 x RS232 2 x RS232/422/485
DIO	1 x 16-bit GPIO
Other	1 x S/PDIF
Display	
Chipset	Intel® Processor Graphics
Resolution	1 x HDMI 1.4b: 3840 x 2160 @ 30 Hz, 2560 x 1600 @ 30 Hz 2 x DP: DisplayPort 1.2a: 4096x2160 @ 60Hz (1 x HDM/DP, 1 x DP++) 2CH 18/24bits LVDS 1920 x 1080 (Chrontel. CH7511B eDP to LVDS Converter) Co-lay eDP 1.3: 4096x2160 BOM optional
LVDS	2CH 18/24bits LVDS 1920 x 1080 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 PCI-e 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®
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EMX-KBLU2P-610-A1R
EMX-KBLU2P-395-A1R

