



EMX-APLP

Intel® Celeron® Processor Thin Mini ITX Motherboard

- > Intel® Celeron® J3455 Processor (2M Cache, up to 2.30GHz)
- > 2 x 204-pin DDR3L 1600MHz SO-DIMM supports up to 16GB
- > DP++, HDMI/DP, Dual channel 18/24-bits LVDS/co-lay eDP
- > 2 x Intel® i211AT Gigabit Ethernet
- > Realtek ALC888S & ALC897 (co-lay) Audio Codec
- > Realtek ALC105 Stereo Class-D 3W x 2 Audio Amplifier
- > 1 x full size Mini PCI-e support mSATA(SATAIII and mSATA by auto switch IC) with 1 x SIM card slot
- > 2 x SATA III, 2 x SATA Power, 5 x USB 2.0 by pin header, 4 x USB 3.0 at I/O
- > 5 x RS232, 1 x RS232/422/485, 16-bit GPIO
- > Mic-in, Line-out, 1 S/PIDF, Optional Infineon SLB9665 TPM 2.0
- > DC in +12V~24V

Spec

System Information	
Processor	Intel®Celeron®J3455 Processor
System Memory	2 x 204-pin DDR3L 1600MHz SO-DIMM supports up to 16GB
I/O Chipset	EC iTE IT8528
BIOS Information	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
Expansion	
Expansion	1 x full size Mini PCI-e support mSATA (SATA III and mSATA By auto switch IC) with 1 x SIM card slot 1 x M.2 (2230) A-Key, support WiFi module
I/O	
USB Port	5 x USB 2.0 4 x USB 3.0
COM Port	5 x RS232(pin9 without power), 1 x RS232/RS/422/485
SATA	2 x SATA Power 2 x SATA III
DIO	1 x 16-bit GPIO
Display	
Graphic Chipset	Intel® SoC integrated Graphics
Spec. & Resolution	HDMI/DP: 3840 x 2160 @ 30Hz, 2560 x 1600 @ 30Hz LVDS: 1920 x 1080 @ 60Hz
LVDS	2CH 18/24bits LVDS 1920 x 1080 Chrontel. CH7511B eDP to LVDS Converter
Audio	
Audio Codec	Realtek ALC888S & ALC897 (Co-lay)
Audio Interface	Mic-in, Line-out
Audio Amplifier	2 x Stereo Class-D 3W Audio Amplifier
Ethernet	
LAN Chipset	2 x Intel I211AT Gigabit Ethernet
Ethernet Interface	10/100/1000 Base-Tx GbE compatible
LAN Port	2 x RJ45
Mechanical & Environmental	
Operating Temperature	0 ~ 60°C (32 ~ 140°F)
Storage Temperature	-40 ~ 75°C (-40 ~ 167°F)
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Weight	0.88lbs (0.4Kgs)
Power Requirement	+12V~24V
Power Mode	AT/ATX
Dimension (L x W)	6.69" x 6.69" (170mm x 170mm)
Software Support	
OS Information	Win 10, Linux ubuntu 20.04
Ordering Information	
Ordering Information	EMX-APLP-3455-B1R Intel® Celeron® J3455 Processor Thin Mini ITX Motherboard