



EMX-APLP

Intel® Pentium® Processor N4200 Thin Mini ITX Motherboard

- > Intel® Pentium® Processor N4200 (2M Cache, up to 2.5 GHz)
- > 2 x 204-pin DDR3L 1600 & 1333MHz 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 ALC662 Audio Codec
- > Realtek ALC105 Stereo Class-D 3W x2 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, 4 x USB 3.0
- > 5 x RS232, 1 x RS232/422/485, 16-bit GPIO
- > Mic-in, Line-out, 1 S/PDIF, Optional Infineon SLB9665 TPM2.0
- > Onboard eMMC (Optional 32GB)
- > DC in +12V~24V

+ Spec

System	
Processor	Intel® Pentium® Processor N4200 (2M Cache, up to 2.5 GHz)
System Memory	2 x 204-pin DDR3L 1600 & 1333 MHz SO-DIMM supports up to 16GB
I/O Chip	EC iTE IT8528
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
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 Type A 2230 WiFi module (default) or 1 x PCI-e x1 By control EC
I/O	
USB	5 x USB 2.0 4 x USB 3.0
SATA	2 x SATA Power 2 x SATA III
COM Port	5 x RS232 1 x RS232/422/485
DIO	1 x 16-bit GPIO
Other	1 x S/PDIF
Display	
Chipset	Intel® Pentium® SoC integrated Graphics
Resolution	DP++: 4096 x 2160 @ 60Hz (1 x HDMI/DP, 1 x DP++) 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	
Chipset	Realtek ALC662 supports 2-CH
Audio Interface	Mic-in, Line-out
Audio Amplifier	2 x Stereo Class-D 3W Audio Amplifier
Ethernet	
Chipset	2 x Intel I211AT 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 Temp	0 ~ 60°C (32 ~ 140°F)
Storage Temp	-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

EMX-APLP-4200-A1R
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