



EQM-APL

Intel® Pentium®/Celeron® SoC processor Qseven Module

- > Onboard Intel® Pentium®/Celeron® SoC BGA processor
- > Onboard DDR3L 1600&1333MHz 4GB Up to 8GB
- > 2 SATA III, 6 USB 2.0, 2 USB 3.0, 3 PCIe2.0
- > Dual Channel 18/24-bit LVDS + HDMI
- > Supports eMMC 5.0, SD card(SDIO 3.0)
- > Qseven Form Factor Rev. 2.1 compliant
- > Standard Temperature: 0°C ~ +70°C

+ Spec

-System Information-	
Processor	Intel® Pentium® Processor N4200 4C 1.1 GHz Intel® Celeron® Processor N3350 2C 1.1 GHz Intel® Celeron® Processor J3455 4C 1.5 GHz
Platform Controller Hub	Apollo Lake SoC integrated
System Memory	Onboard DDR3L 1600&1333 4GB Up to 8GB
I/O Chipset	EC (IT8528I)
BIOS Information	AMI 128Mbit SPI BIOS
Watchdog Timer	H/W Reset, 1sec. ~ 65535sec. and 1sec./step
H/W Status Monitor	Monitoring system temperature, voltage. Auto trotting control when CPU CPU temperature monitoring V-Core Voltages monitoring 5V Voltage monitoring
Expansion	
Expansion	3 x PCIe1
Storage	
Storage	eMMC5.0 onbaord flash up to 64GB(optional)
I/O	
USB Port	6 x USB 2.0 2 x USB 3.0
SATA	2 x SATA III
MIO	1 x LPC 1 x SMBus 1 x I2C 1 x SPI
UART	1 x UART
Display	
Graphic Chipset	Apollo lake SoC integrated Graphics
Spec. & Resolution	HDMI: Max. resolution 3840x2160 @ 30Hz or DP: Max. resolution 4096x2160 @ 60Hz LVDS: Max. resolution 1920x1200 @ 60Hz or eDP: Max. resolution 4096x2160 @ 60Hz
Multiple Display	HDMI + DDI
LVDS	CH7511B(eDP to LVDS)
Audio	
Audio Codec	Intel® Apollo lake SoC integrated
Audio Interface	Intel® High Definition Audio
Certifications	
Certification Information	CE FCC Class B
Ethernet	
LAN Chipset	1 x Intel® I211AT (N4200/N3350)
Ethernet Interface	10/100/1000 Base-Tx GbE compatible
Mechanical & Environmental	
Operating Temperature	Standard supports 0°C ~ 70°C (32°F ~ 158°F)(N4200/N3350) Extended supports -20°C ~ 70°C (-4°F ~ 158°F)(N4200/N3350)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Power Requirement	+5V
ACPI	Single Power ATX Support S0, S3, S4, S5 ACPI5.0 Compliant
Power Mode	AT
Dimension (L x W)	2.75" x 2.75" (70mm x 70mm)
Software Support	



OS Information	Win 10 Linux Android
Ordering Information	
Ordering Information	EQM-APL-N4200-A2R Intel Pentium® N4200 Q7/4G DDR3L Rev. A2 EQM-APL-N3350-A2R Intel Celeron® N3350 Q7/4G DDR3L Rev. A2 EQM-APL-J3455-A2R Intel Celeron® J3455 Q7/4G DDR3L Rev. A2 REV-Q703-B1-00R Mini ITX Evaluation Carrier Board for Q7 Rev 2.1 ACC-EQMAPLN-SK-1R Heatsink for EQM-APL N4200/N3350 w/o Fan,H=24mm, supports -20~70C ACC-EQMAPLN-SD-1R Heatspreader for EQM-APL N4200/N3350