



## 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-	
<b>Processor</b>	Intel® Pentium® Processor N4200 4C 1.1 GHz Intel® Celeron® Processor N3350 2C 1.1 GHz Intel® Celeron® Processor J3455 4C 1.5 GHz
<b>Platform Controller Hub</b>	Apollo Lake SoC integrated
<b>System Memory</b>	Onboard DDR3L 1600&1333 4GB Up to 8GB
<b>I/O Chipset</b>	EC (IT8528I)
<b>BIOS Information</b>	AMI 128Mbit SPI BIOS
<b>Watchdog Timer</b>	HW Reset, 1sec. ~ 65535sec. and 1sec./step
<b>HW Status Monitor</b>	Monitoring system temperature, voltage. Auto trotting control when CPU CPU temperature monitoring V-Core Voltages monitoring 5V Voltage monitoring
Expansion	
<b>Expansion</b>	3 x PCIe1
Storage	
<b>Storage</b>	eMMC5.0 onbaord flash up to 64GB(optional)
I/O	
<b>USB Port</b>	6 x USB 2.0 2 x USB 3.0
<b>SATA</b>	2 x SATA III
<b>MIO</b>	1 x LPC 1 x SMBus 1 x I2C 1 x SPI
<b>UART</b>	1 x UART
Display	
<b>Graphic Chipset</b>	Apollo lake SoC integrated Graphics
<b>Spec. &amp; Resolution</b>	HDMI: Max. resolution 3840x2160 @ 30Hz or DP: Max. resolution 4096x2160 @ 60Hz LVDS: Max. resolution 1920x1200 @ 60Hz or eDP: Max. resolution 4096x2160 @ 60Hz
<b>Multiple Display</b>	HDMI + DDI
<b>LVDS</b>	CH7511B(eDP to LVDS)
Audio	
<b>Audio Codec</b>	Intel® Apollo lake SoC integrated
<b>Audio Interface</b>	Intel® High Definition Audio
Certifications	
<b>Certification Information</b>	CE FCC Class B
Ethernet	
<b>LAN Chipset</b>	1 x Intel® I211AT (N4200/N3350)
<b>Ethernet Interface</b>	10/100/1000 Base-Tx GbE compatible
Mechanical & Environmental	
<b>Operating Temperature</b>	Standard supports 0°C ~ 70°C (32°F ~ 158°F)(N4200/N3350) Extended supports -20°C ~ 70°C (-4°F ~ 158°F)(N4200/N3350)
<b>Storage Temperature</b>	-40°C ~ 85°C (-40°F ~ 185°F)
<b>Operating Humidity</b>	40°C @ 95% Relative Humidity, Non-condensing
<b>Power Requirement</b>	+5V
<b>ACPI</b>	Single Power ATX Support S0, S3, S4, S5 ACPI 5.0 Compliant
<b>Power Mode</b>	AT
<b>Dimension (L x W)</b>	2.75" x 2.75" (70mm x 70mm)
Software Support	



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

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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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