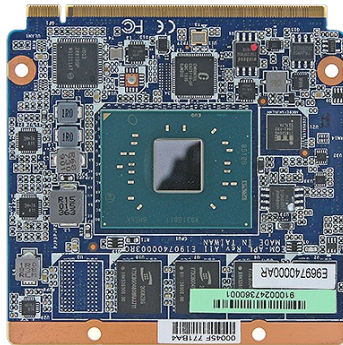




## EQM-APL

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<br>Intel® Celeron® Processor N3350 2C 1.1 GHz<br>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<br>2 x USB 3.0                                                                                                                                              |
| SATA                       | 2 x SATA III                                                                                                                                                            |
| MIO                        | 1 x LPC<br>1 x SMBus<br>1 x I2C<br>1 x SPI                                                                                                                              |
| UART                       | 1 x UART                                                                                                                                                                |
| Display                    |                                                                                                                                                                         |
| Graphic Chipset            | Apollo lake SoC integrated Graphics                                                                                                                                     |
| Spec. & Resolution         | HDMI: Max. resolution 3840x2160 @ 30Hz<br>or DP: Max. resolution 4096x2160 @ 60Hz<br>LVDS: Max. resolution 1920x1200 @ 60Hz<br>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<br>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)<br>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<br>ACPI 5.0 Compliant                                                                                                           |
| Power Mode                 | AT                                                                                                                                                                      |
| Dimension (L x W)          | 2.75" x 2.75" (70mm x 70mm)                                                                                                                                             |
| Software Support           |                                                                                                                                                                         |



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