

Q7M311

Oseven Module with Intel® Pentium® Processor N4200 & Celeron® Processor N3350

Features

- Intel® Pentium® processor N4200 & Celeron® processor N3350 (Apollo Lake)
- Onboard 4GB DDR3L memory
- 4 lanes of PCI Express slot
- 2 SATA-600
- 3 USB 3.0 and 4 USB 2.0

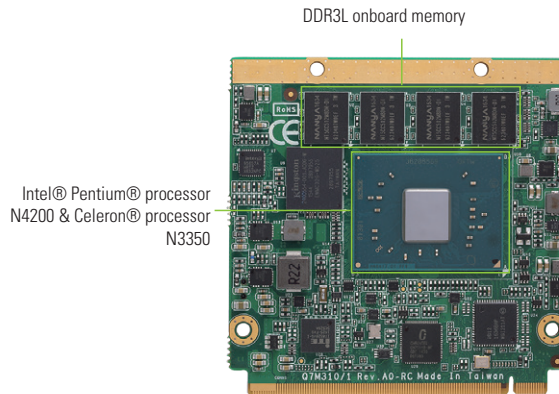


Core System

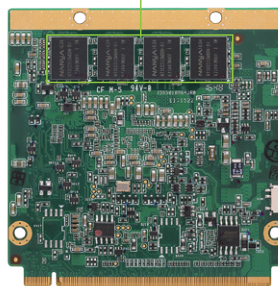
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|---------------------|--|
| CPU | Intel® Pentium® processor N4200 & Celeron® processor N3350 (Apollo Lake) onboard |
| System Memory | Onboard 4GB DDR3L memory |
| Chipset | SoC integrated |
| BIOS | AMI uEFI (Legacy free) |
| SSD | eMMC 5.0 up to 64GB (optional) |
| Watchdog Timer | 65536 levels, 0 ~ 65535 sec. |
| Expansion Interface | 4 x PCIe x1 (3 x PCIe x1 if onboard LAN is supported) |
| Battery Lithium | N/A |
| Power Input | ATX: 5V, +5VSB AT: 5V |
| Size | 70 x 70 mm |
| Board Thickness | 1.2 mm |
| Temperature | -20°C ~ +70°C (-4°F ~ +158°F), operation |
| Operation Humidity | 10% ~ 95% relative humidity, non-condensing |

I/O

| | |
|---------------------|---|
| MIO | 1 x LPC interface (optional) 1 x SPI interface 1 x Serial TX/RX 1 x I ² C 1 x SDIO |
| SATA | 2 x SATA-600 |
| Hardware Monitoring | Yes |
| Ethernet | 1 port as 10/100/1000 Mbps supports Wake-on-LAN, PXE Boot ROM with Intel® i211AT |
| Audio | HD link interface to baseboard for Codec |
| USB | 3 x USB 3.0 4 x USB 2.0 |
| TPM | N/A |
| SMBus | Yes |
| Digital I/O | 8 x GPIO |
| SDIO | Yes |
| Smart Battery | Yes |



Onboard DDR3L memory



Display

| | |
|-------------------|--|
| Chipset | Intel® Gen 9 Graphics Engine Support Gfx - DX11.1, OCL1.2, OGL 4.2 |
| Display Interface | 1 x DDI (DP, HDMI, DVI) 1 x LVDS; 18/24-bit dual channel (eDP optional) |

Packing List

Quick installation guide

Ordering Information

| Standard | |
|--|---|
| Q7M311PG-N4200-4G (P/N: E38Q311100) | Oseven module with Intel® Pentium® N4200, 4GB DRAM, DDI/LVDS, USB 3.0 and GbE LAN |
| Q7M311PG-N3350-4G (P/N: E38Q311102) | Oseven module with Intel® Celeron® N3350, 4GB DRAM, DDI/LVDS, USB 3.0 and GbE LAN |
| 7128Q311000E | Q7M311 heat spreader |
| 7118Q311000E | Q7M311 heatsink without fan |

Block Diagram

