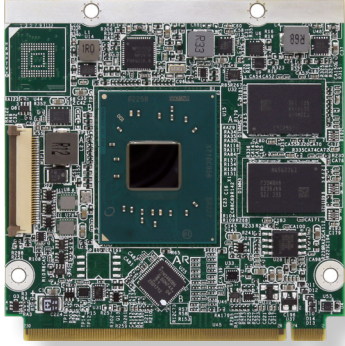


EmQ-i240A



Intel® Pentium N4200/Celeron N3350/Atom x7-E3950/ x5-E3940/E3930 Processor Qseven R2.1 CPU Module



Features

- Soldered onboard Intel Apollolake SoC Processor
- Intergrated Gigabit Ethernet
- Dual Channel 24-bit LVDS and 1 x DDI port

System

| | |
|--------|--|
| CPU | Soldered onboard Intel® Pentium® N4200 2.5GHz/ Celeron® N3350 2.4GHz/ Atom™ x7-E3950 1.6GHz/ x5-E3940 1.6GHz/ x5-E3930 1.3GHz processor |
| Memory | Soldered onboard LPDDR4 8GB |
| BIOS | AMI UEFI BIOS (Legacy) |

I/O

| | |
|------------------|---|
| USB Port | 6 x USB 2.0 ports 2 x USB 3.0 ports |
| Expansion Bus | 4 x PCIe1 lanes, I2C Interface |
| Storage | 2 x Serial ATA ports Soldered onboard eMMC 5.0 up to 32GB (OEM Request) |
| Ethernet Chipset | 1 x Intel® Ethernet controller i21x series |
| Audio | HD link |

Display

| | |
|-------------------|---|
| Graphic Chipset | Intergrated in Intel® Gen9 graphic |
| Graphic Interface | Dual Channel 24-bit LVDS, with resolution up to 1920x1200 1 x DDI port |

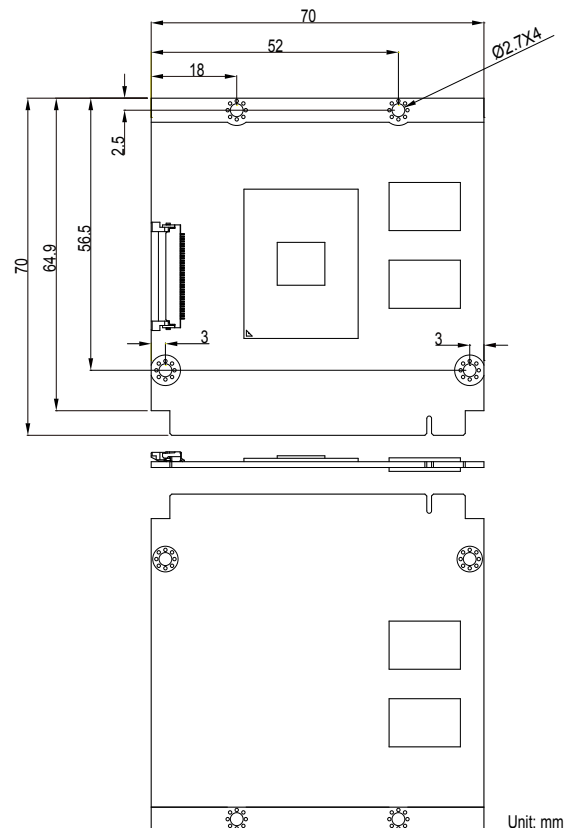
OS support

Windows 10 64-bit
Linux: Ubuntu

Mechanical & Environmental

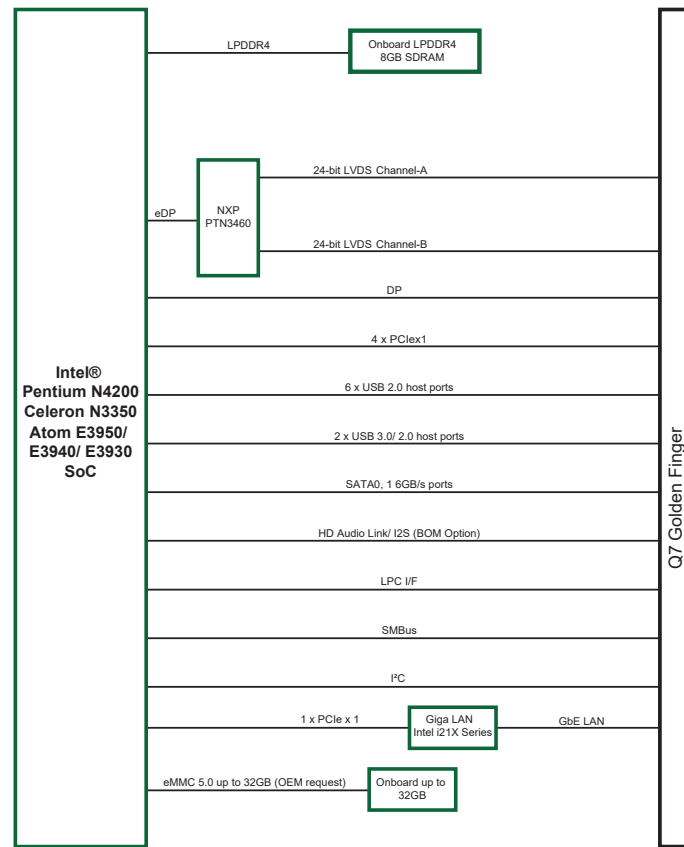
| | |
|--------------------|---|
| Power Requirement | DC 5V, 5VSB |
| Power Consumption | 2A@5V with N4200 (Typical with PBQ-900R) |
| Operating Temp. | -20 ~ 85°C (-4~185°F) -40 ~ 80°C for EmQ-i240A-WT series |
| Operating Humidity | 10 ~ 95% @ 85°C (non-condensing) |
| Dimensions (L x W) | 70 x 70 mm (2.76" x 2.76") |

Dimensions



Unit: mm

Block Diagram



Ordering Information

| | |
|-----------------------|---|
| EmQ-i240A-N4200-8GB | Intel® Pentium® N4200 Qseven R2.1 CPU module w/ 8GB memory soldered on module, -20~85°C |
| EmQ-i240A-N3350-8GB | Intel® Celeron® N3350 Qseven R2.1 CPU module w/ 8GB memory soldered on module, -20~85°C |
| EmQ-i240AD-N4200-8GB | Intel® Pentium® N4200 Qseven R2.1 CPU module w/ 8GB memory soldered on module, w/ 32GB eMMC, -20~85°C (OEM Request) |
| EmQ-i240AD-N3350-8GB | Intel® Celeron® N3350 Qseven R2.1 CPU module w/ 8GB memory soldered on module, w/ 32GB eMMC, -20~85°C (OEM Request) |
| EmQ-i240A-WT-E3950-8G | Intel® Atom® x7-E3950 Qseven R2.1 CPU module w/ 8GB memory soldered on module, w/ 32GB eMMC, -40~85°C (OEM Request) |
| EmQ-i240A-WT-E3940-8G | Intel® Atom® x5-E3940 Qseven R2.1 CPU module w/ 8GB memory soldered on module, w/ 32GB eMMC, -40~85°C (OEM Request) |
| EmQ-i240A-WT-E3930-8G | Intel® Atom® x5-E3930 Qseven R2.1 CPU module w/ 8GB memory soldered on module, w/ 32GB eMMC, -40~85°C (OEM Request) |

Optional Accessories

| | |
|----------------|---|
| PBQ-900R | Qseven R2.1 ATX form factor carrier board (All Super IO port functions are OEM requested) |
| SCDB-5221 | Dual Channels 24-bit LVDS & DP port (signals via CPU module) daughterboard |
| HS-240A-F1 | Heat Spreader, w/PAD, 70x65x8mm for N-Series |
| HS-240A-F2 | Heat Spreader, w/PAD, 70x65x8mm for E-Series |
| CBK-04-900R-00 | Cable kit: 2 x SATA cables 1 x COM cable 1 x Parallel cable |