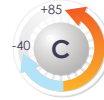
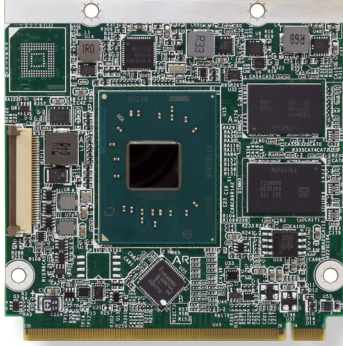


# EmQ-i240A



## 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/<br>Celeron® N3350 2.4GHz/<br>Atom™ x7-E3950 1.6GHz/ x5-E3940 1.6GHz/<br>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<br>2 x USB 3.0 ports  |
| Expansion Bus    | 4 x PCIe1 lanes, I2C Interface  |
| Storage          | 2 x Serial ATA ports<br>Soldered onboard eMMC 5.0 up to 32GB<br>(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<br>1 x DDI port |

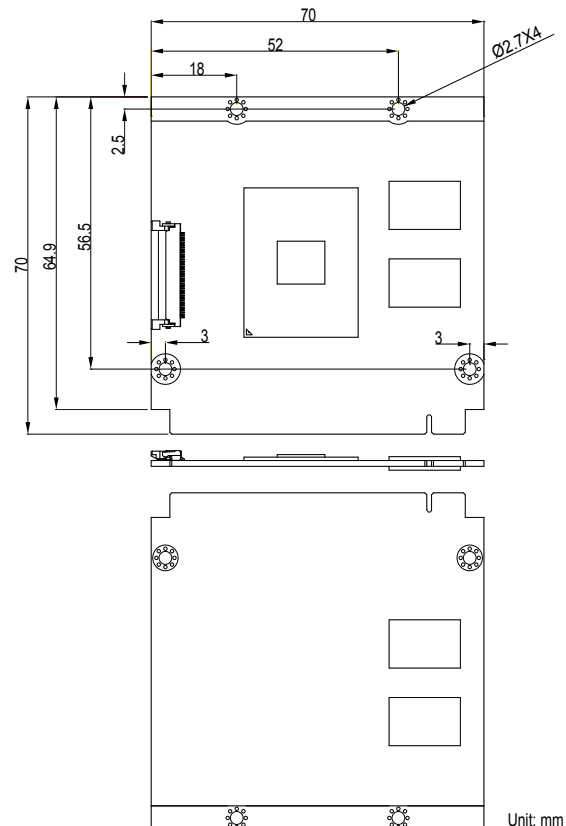
### OS support

Windows 10 64-bit  
Linux: Ubuntu

### Mechanical & Environmental

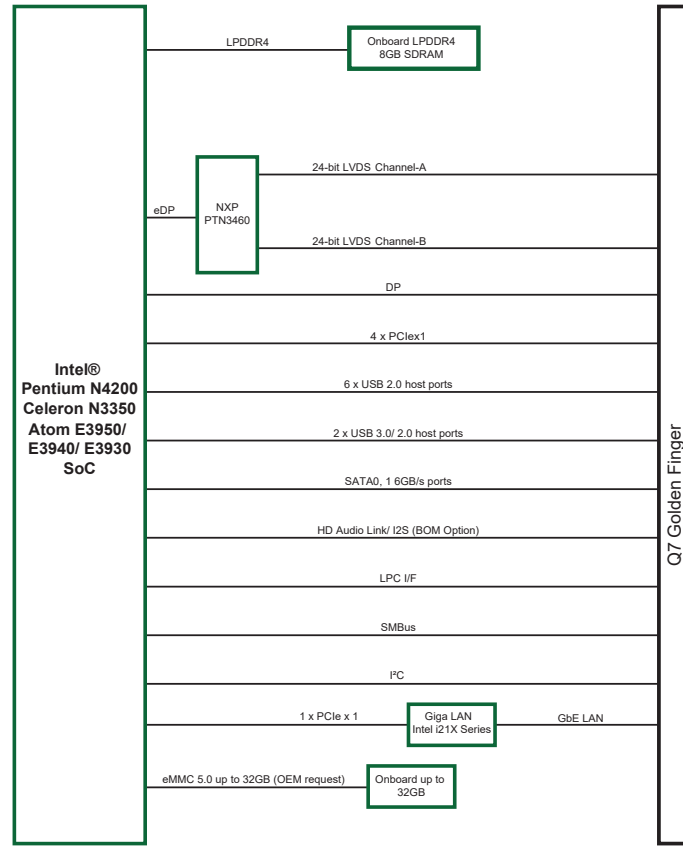
|                    |   |
|--------------------|---|
| Power Requirement  | DC 5V, 5VSB   |
| Power Consumption  | 2A@5V with N4200  |
| Operating Temp.    | -20 ~ 85°C (-4~185°F)<br>-40 ~ 85°C for EmQ-i240A-WT series |
| Operating Humidity | 10 ~ 95% @ 85°C (non-condensing)                            |
| 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-i240A-WT-E3950-8G | Intel® Atom® x7-E3950 Qseven R2.1 CPU module w/ 8GB memory soldered on module, -40~85°C |
| EmQ-i240A-WT-E3940-8G | Intel® Atom® x5-E3940 Qseven R2.1 CPU module w/ 8GB memory soldered on module, -40~85°C |
| EmQ-i240A-WT-E3930-8G | Intel® Atom® x5-E3930 Qseven R2.1 CPU module w/ 8GB memory soldered on module, -40~85°C |

## Optional Accessories

|            |   |
|------------|---|
| PBQ-900L   | Qseven R2.0 w/ EPIC form factor carrier board |
| HS-240A-F1 | Heat Spreader, w/PAD, 70x65x8mm for N-Series  |
| HS-240A-F2 | Heat Spreader, w/PAD, 70x65x8mm for E-Series  |

|                |                      |
|----------------|----------------------|
| CBK-06-900L-00 | Cable kit:           |
|                | 2 x COM cable        |
|                | 1 x USB cable        |
|                | 1 x SATA cable       |
|                | 1 x SATA Power cable |
|                | 1 x Audio cable      |