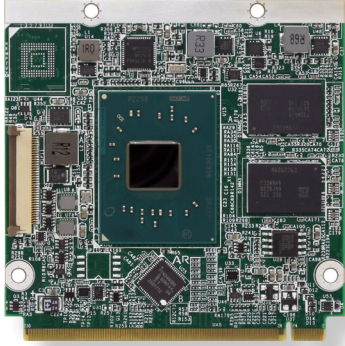


# EmQ-i240A



## 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

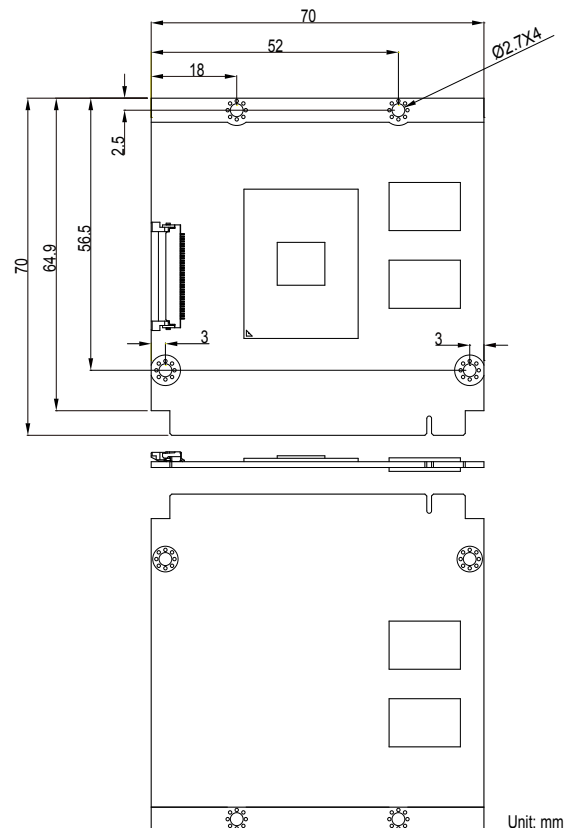
### OS support

Windows 10 64-bit  
Linux: Ubuntu

### Mechanical & Environmental

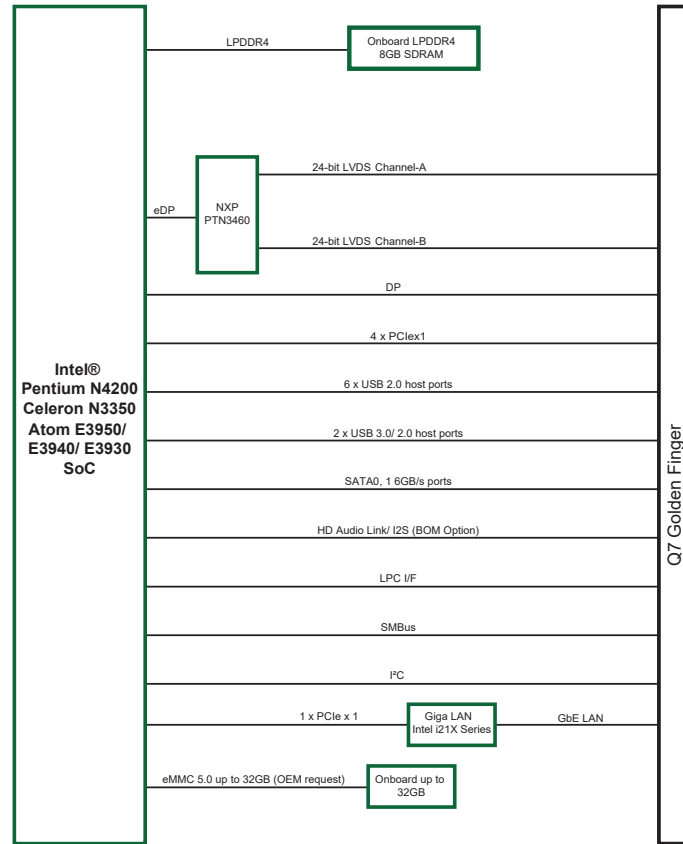
Power Requirement	DC 5V, 5VSB
Power Consumption	2A@5V with N4200 (Typical with PBQ-900R)
Operating Temp.	-20 ~ 85°C (-4~185°F) -40 ~ 85°C for EmQ-i240A-WT series
Operating Humidity	10 ~ 95% @ 85°C (non-condensing)
Dimensions (L x W)	70 x 70 mm (2.76" x 2.76")

### 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-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