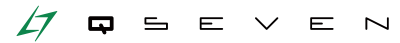
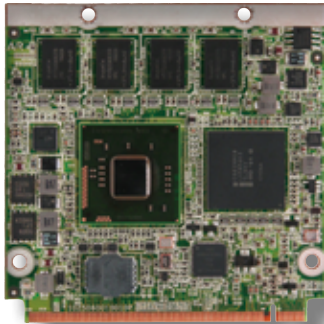


# EmQ-i2506



## Intel® Atom™ N2600 Qseven™ CPU Module



### Features

- **Fanless Design**
- Soldered Onboard Intel® Atom™ N2600 Processor
- Integrated Gigabit Ethernet
- Single Channel 18-bit LVDS, Analog RGB, DDI Port
- **Extended Operating Temp.: -20 ~ 70°C**

### System

|                       |                                                      |
|-----------------------|------------------------------------------------------|
| <b>CPU</b>            | Soldered onboard Intel® Atom™ N2600 1.6GHz processor |
| <b>Memory</b>         | Soldered onboard 2GB DDR3 SDRAM                      |
| <b>Chipset</b>        | Intel® PCH NM10                                      |
| <b>BIOS</b>           | AMTUEFI BIOS                                         |
| <b>Watchdog Timer</b> | 1~255 levels reset                                   |

### I/O

|                         |                                                     |
|-------------------------|-----------------------------------------------------|
| <b>USB Port</b>         | 8 x USB 2.0 ports                                   |
| <b>Expansion Bus</b>    | 3 x PCIe x1 lanes<br>LPC (Low Pin Count) interface  |
| <b>Storage</b>          | 2 x Serial ATA ports with 300MB/s HDD transfer rate |
| <b>Ethernet Chipset</b> | 1 x Intel® 82583V PCIe GbE controller               |
| <b>Audio</b>            | HD Audio Link                                       |

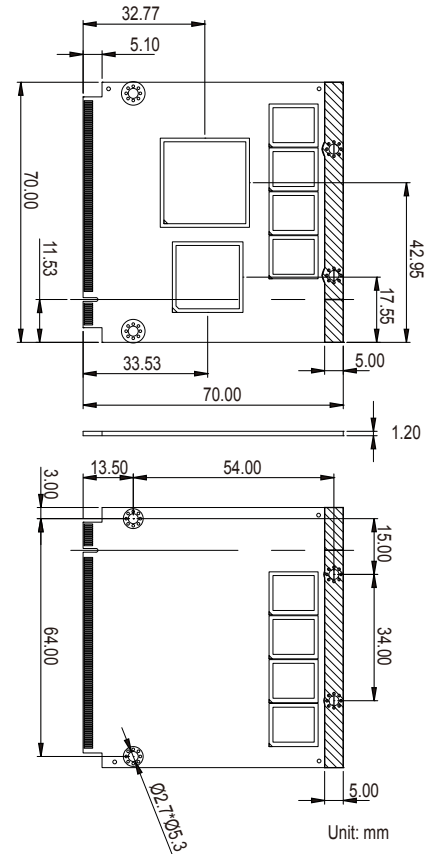
### Display

|                           |                                                                                                                 |
|---------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Graphics Chipset</b>   | Integrated Intel® Graphics Media Accelerator 3600<br>LCD: Single Channel 18-bit LVDS, resolution up to 1366x768 |
| <b>Graphics Interface</b> | Support Analog RGB signals (via Qseven GF reserved pin)<br>1 x DDI port                                         |

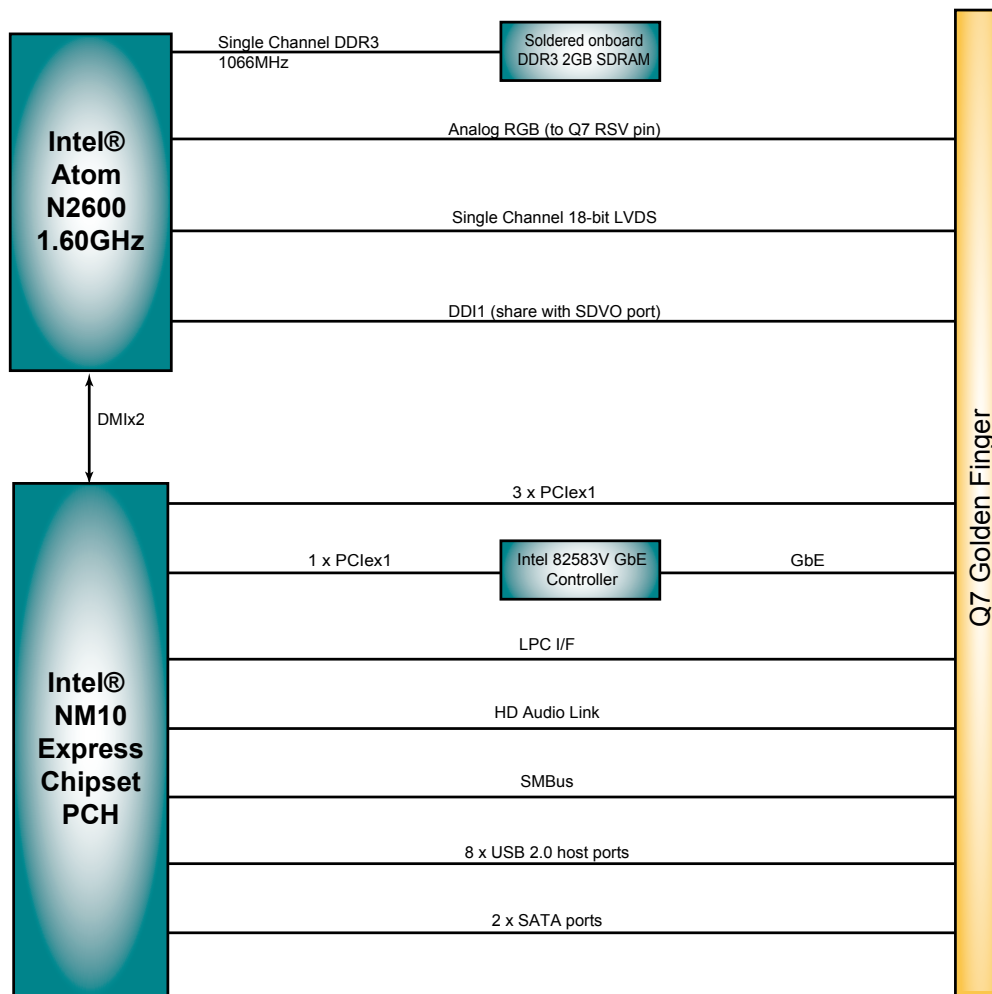
### Mechanical & Environmental

|                           |                                  |
|---------------------------|----------------------------------|
| <b>Power Requirement</b>  | 5V, 5VSB                         |
| <b>Power Consumption</b>  | 1.26A@+12V (Typical)             |
| <b>Operating Temp.</b>    | -20 ~ 70°C (-4 ~ 158°F)          |
| <b>Operating Humidity</b> | 10 ~ 95% @ 70°C (non-condensing) |
| <b>Dimension (L x W)</b>  | 70 x 70 mm (2.76" x 2.76")       |

### Dimensions



## Block Diagram



## Ordering Information

|                            |                                              |
|----------------------------|----------------------------------------------|
| <b>EmQ-i2506</b>           | Intel® Atom™ N2600 1.6GHz Qseven™ CPU module |
| <b>StarterKit-003-2506</b> | Qseven™ Starter Kit for EmQ-i2506            |

## Optional Accessories

|                   |                                                                      |
|-------------------|----------------------------------------------------------------------|
| <b>HS-2506-F1</b> | Heat spreader (70.0x65.0x8.0mm)                                      |
| <b>HS-0000-W3</b> | Universal evaluation heatsink kit for Qseven CPU module (70x70x30mm) |
| <b>PBQ-3000</b>   | Qseven™ EPIC evaluation board                                        |

Page 60

|                       |                                                                                                                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CBK-06-3000-00</b> | Cable kit <ul style="list-style-type: none"> <li>• 1 x USB cable</li> <li>• 1 x USB2 cable</li> <li>• 2 x Serial port cables</li> <li>• 1 x SATA cable</li> <li>• 1 x SATA power cable</li> </ul> |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|