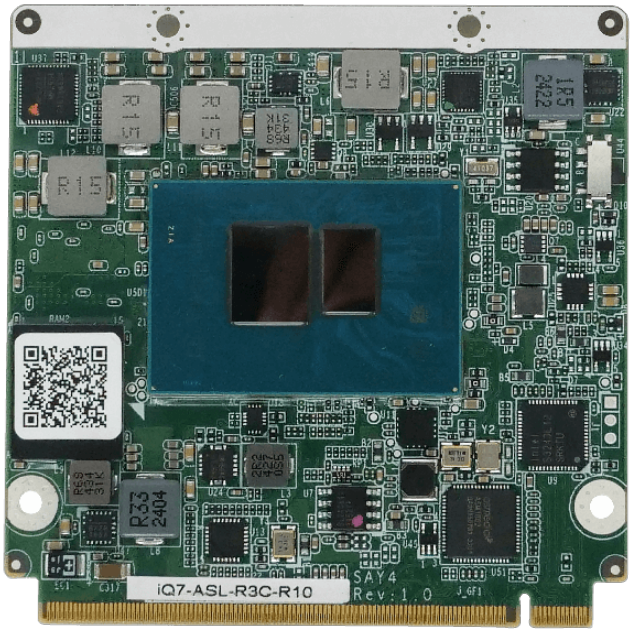
# iQ7-ASL

Qseven® Rev. 2.1 module with Intel® Amston Lake & Alder Lake-N, with 8GB LPDDR5 memory on board default, Support DP, LVDS, 2.5GbE, SATA 6Gb/s, USB 3.2, Audio and RoHS




## Features

» Intel® Amston Lake & Alder Lake-N on-board SoC

» Support Intel® I226-V 2.5 GbE Ethernet controller

» Support dual independent displays via HDMI and LVDS(or eDP)

» Support four PCIe Gen3 x1 for expansions

» Support two USB 3.2 Gen2 and six USB 2.0

## Specifications

| | |
|---|---|
| Form Factor | |
| Form Factor | Qseven™ module |
| System | |
| CPU | Intel® Amston Lake & Alder Lake-N on-board SoC |
| | Intel® Alder Lake-N N97 SoC Processor (up to 2.9GHz, quad-core, TDP=12W) |
| | Intel® Amston Lake 7433RE SoC Processor (up to 2.7GHz, quad-core, TDP=9W) |
| | Intel® Alder Lake-N x7211E SoC Processor (up to 2.9GHz, dual-core, TDP=6W) |
| Memory | On board LPDDR5-5500 8G pre-installed |
| Memory Max. | 16GB |
| Physical Characteristics | |
| Dimensions (LxWxH) (mm) | 70*70mm |
| Storage | |
| Storage | 2 x SATA : signal to baseboard, 6Gb/s |
| I/O Interface | |
| Display Output | 1 x HDMI™ : signal to baseboard, up to 4096 x 2160@30Hz |
| | 1 x LVDS : colay with eDP |
| Ethernet | 1 x LAN : 1 x 2.5 GbE Intel I226-V signal to baseboard |
| I/O Interface | 2 x External USB 3.2 Gen2x1 : signal to baseboard (10 Gb/s) |
| | 1 x Internal RS-232 : 1 x UART signal to baseboard |
| | 6 x Internal USB 2.0 : signal to baseboard |
| Expansion | 4 x PCIe x1 : signal to baseboard |
| Power | |
| Power Supply | 5V DC |
| Environment | |
| Operating Temperature | -10°C ~ 60°C |
| Storage Temperature | -30°C ~ 70°C |
| Humidity | 5% ~95%, non-condensing |

## Ordering Information

| | |
|---|---|
| iQ7-ASL-R3C-R10 | Qseven® Rev. 2.1 module with Intel® Atom x7433RE SoC Processor (9W), with 8GB LPDDR5 memory on board default, Support HDMI, LVDS, 2.5GbE, SATA 6Gb/s, USB 3.2,Audio and RoHS |
| iQ7-ASL-N2C-R10 | Qseven® Rev. 2.1 module with Intel® N-series N97 SoC Processor(12W), with 8GB LPDDR5 memory on board default, Support HDMI, LVDS, 2.5GbE, SATA 6Gb/s, USB 3.2, Audio and RoHS |

## Packing List

| | |
|---|---|
| 1 x iQ7-ASL Single Board Computer | 1 x Heatsink |
| 1 x QIG | |