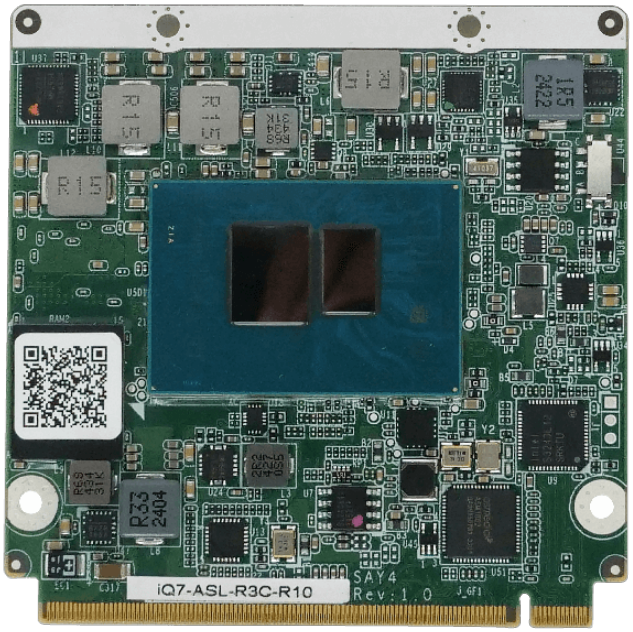
iQ7-ASL

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	