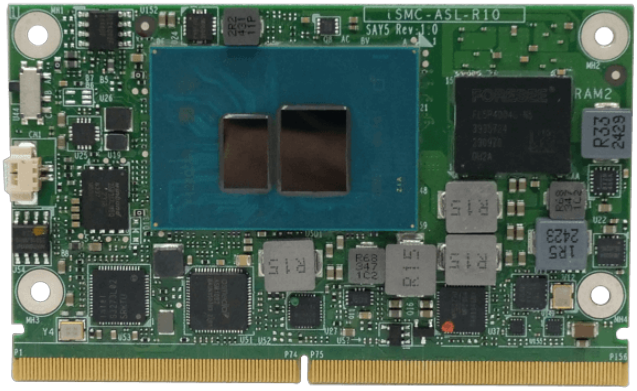
iSMC-ASL

SMARC® Rev. 2.1 module supports Intel® Amston Lake & Alder Lake-N on-board SoC Processor, with 8GB LPDDR5 memory on board default, Support DP, HDMI, 2.5GbE, SATA 6Gb/s, USB 3.2, GPIO, CAN, Audio and RoHS



Features

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

» Support Intel® I226-V 2.5 GbE Ethernet controller

» Support triple independent displays via DP 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	SMARC™ module
System	
CPU	Intel® Alder Lake-N/Amston Lake on-board SoC
	Intel® Alder Lake-N N97 SoC Processor
	Intel® Atom™ x7433RE SoC Processor
Memory	LPDDR5-5500Gbps 8GB, up to 16GB
Memory Max.	16GB
Physical Characteristics	
Dimensions (LxWxH) (mm)	82 x 50
Storage	
Storage	1 x eMMC : onboard eMMC optional (up to 256G)
	1 x SATA : signal to baseboard, 6Gb/s
I/O Interface	
Display Output	1 x Display Port : signal to baseboard, 4096 x 2160 @ 60Hz
	1 x HDMI™ : signal to baseboard, 3840 x 2160 @ 30Hz
	1 x LVDS : colay with eDP
Ethernet	2 x LAN : 2.5 GbE Intel® I226-V signal to baseboard
I/O Interface	4 x Internal RS-232 : UART signal to baseboard
	6 x Internal USB 2.0 : signal to baseboard
	2 x Internal USB 3.2 Gen2x1 : signal to baseboard (10 Gb/s)
Expansion	4 x PCIe x1 : signal to baseboard
Power	
Power Supply	5V DC
Environment	
Operating Temperature	0°C~60°C
Storage Temperature	-30°C~70°C
Humidity	5% ~95%, non-condensing

Ordering Information

iSMC-ASL-R3C-R10	SMARC® Rev. 2.1 module supports Intel® ASL x7433RE SoC Processor, with 8GB LPDDR5 memory on board default, Support DP, HDMI, 2.5GbE,SATA 6Gb/s, USB 3.2, GPIO, CAN, Audio and RoHS
iSMC-ASL-N2C-R10	SMARC® Rev. 2.1 module supports Intel® N-series N97 SoC Processor, with 8GB LPDDR5 memory on board default, Support DP, HDMI, 2.5GbE,SATA 6Gb/s, USB 3.2, GPIO, CAN, Audio and RoHS

Packing List

1 x iSMC-ASL Single Board Computer	1 x Heatsink
1 x QIG	