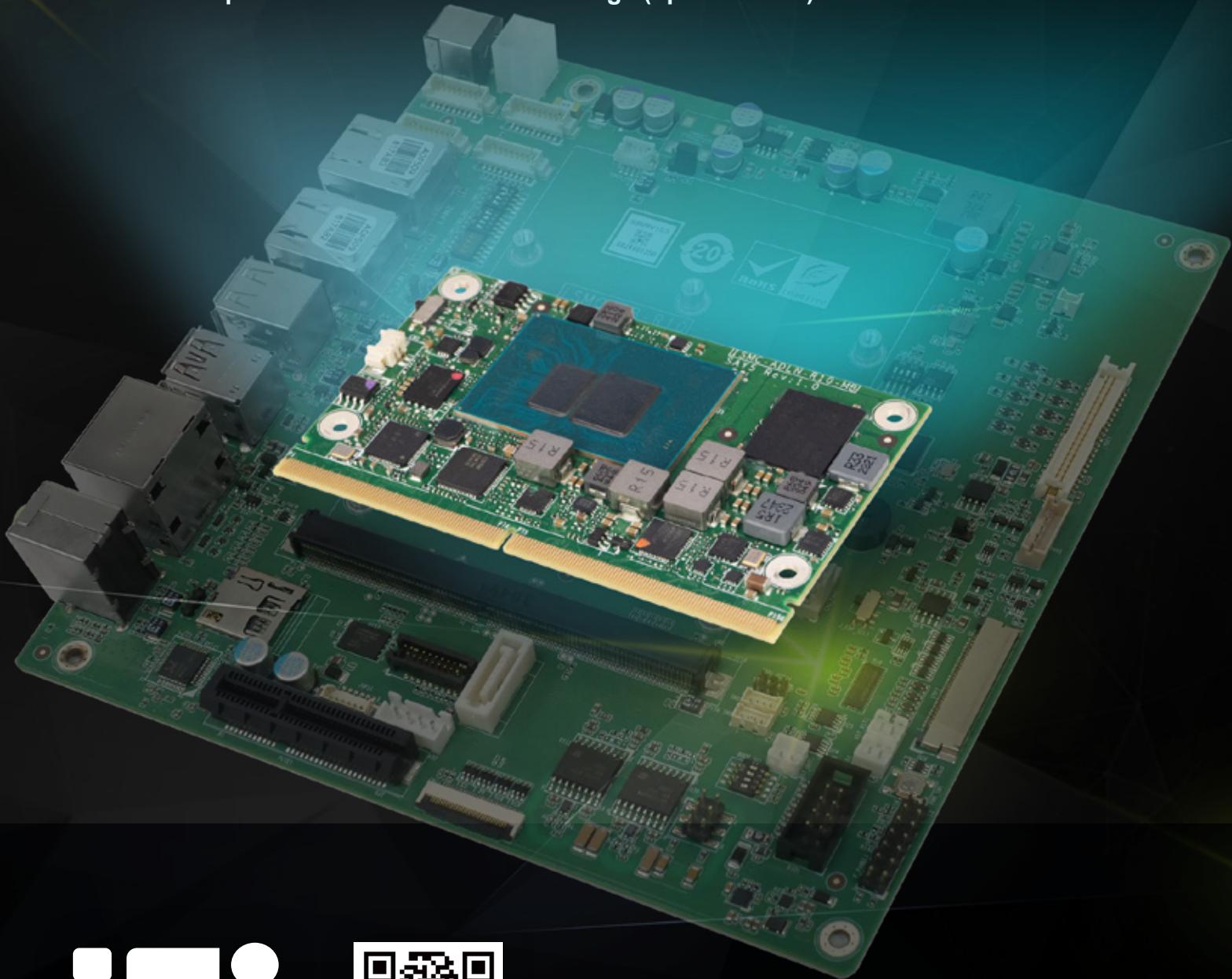


iSMC-ASL

SMARC® Rev. 2.1 module

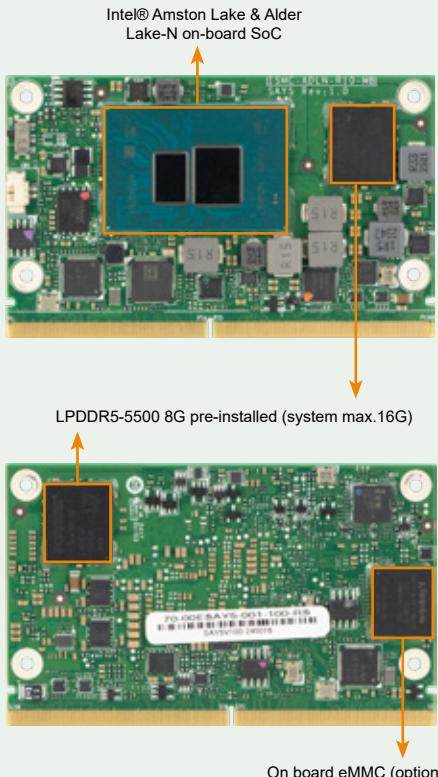
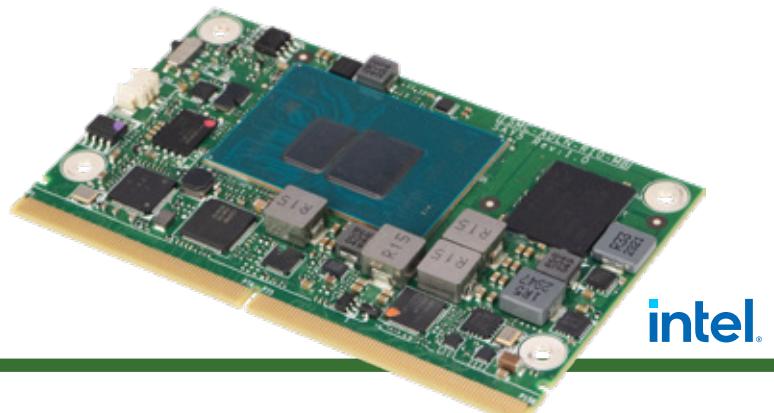
- SMARC 2.1 SBC supports Intel® Alder Lake-N/Amston Lake on-board SoC
- Support Intel® i226V 2.5GbE Lan port
- With 8GB 5500 LPDDR5 memory on board default(up to 16 GB)
- With optional on board eMMC as storage (up to 256 GB)



www.ieiworld.com

iSMC-ASL

SMARC® Rev. 2.1 module supports Intel® Alder Lake-N/Amston Lake 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



Compliant with SMARC 2.1 specification



Satisfying low power consumption, low cost and high performance applications, it stands out for its rich selection of graphics, camera, sound, network and optional wireless interfaces. Ideal for IoT.



Low-power Intel® Alder Lake-N/Amston Lake on-board SoC

Intel® Processor on-board SoC, equipped with N97 and x7433RE SoC Processor. Supports Intel® new 10 nm technology Intel 7



Support Intel® I226V 2.5GbE Controller

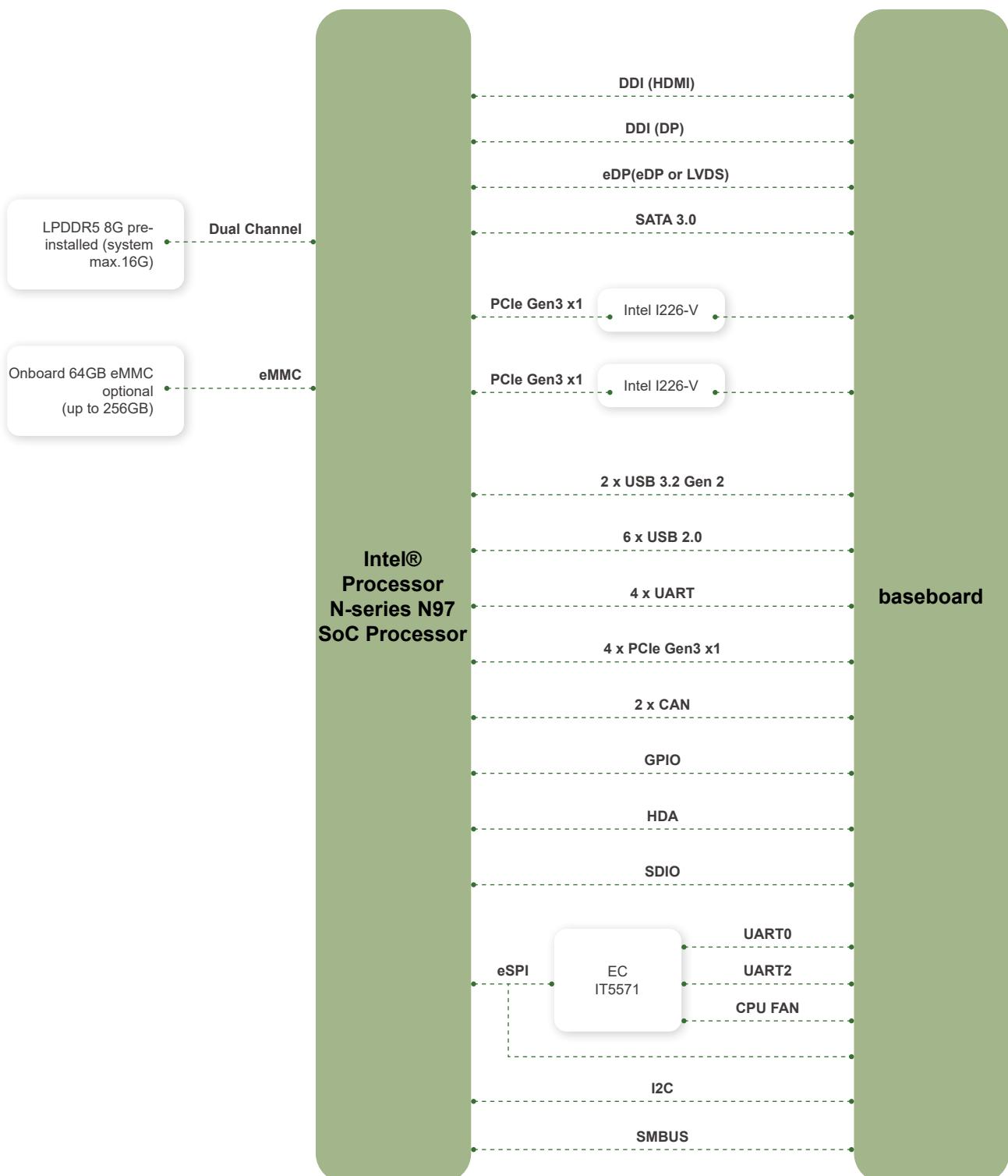
With PCIe 2.5 GbE Intel i226-V signal to baseboard, achieving up to 2.5GbE network transmissionrate.



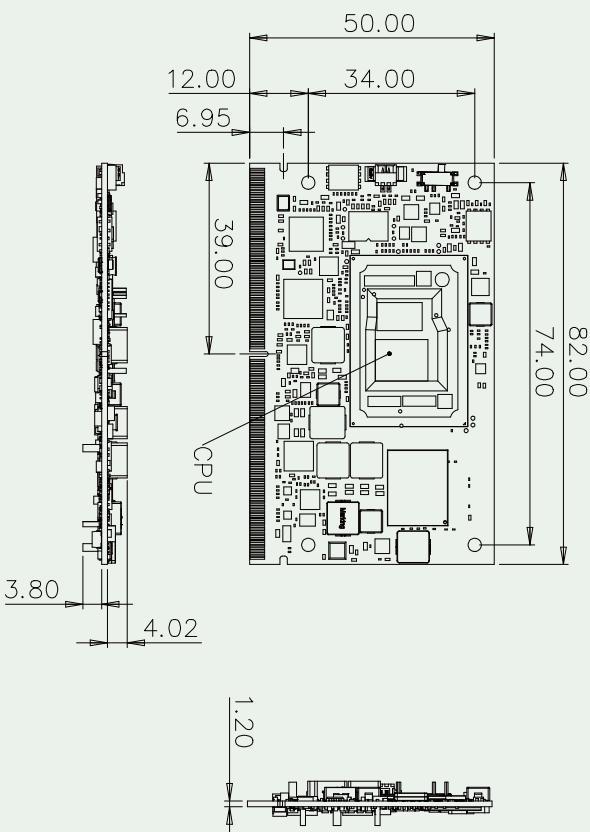
On Board Memory And Storage

With 8GB LPDDR5 memory on board default, and optional on board eMMC as storage

Block Diagram



Dimensions



Specifications

Model	iSMC-ASL
CPU	Intel® Alder Lake-N/Amston Lake on-board SoC Intel® Alder Lake-N N7 SoC Processor Intel® Atom™ x7433RE SoC Processor
Memory	Dual channel LPDDR5 8G pre-installed (system max.16G)
BIOS	UEFI BIOS
Graphics Engine	Intel® UHD Graphics
Display Interfaces	Triple independent display signals to baseboard 1 X DP 1.4a: up to 4096 x 2160 @ 60 Hz 1 X HDMI 1.4b: Up to 3840 x 2160 @ 30 Hz 1 x LVDS: 1920 x 1200 @ 60Hz or 1 x eDP: 4096 x 2160 @ 60Hz
Ethernet	2 x PCIe 2.5 GbE with Intel i226-V signal to baseboard
Audio	1 x HDA signal to baseboard Support 7.1-channel HD Audio by Realtek ALC888S
Storage	1 x SATA 3.0 signal to baseboard onboard eMMC optional (up to 256G)
USB	2 x USB 3.2 Gen 2 signal to baseboard 6x USB 2.0 signal to baseboard
UART	4 x UART signal to baseboard
Expansion	4 x PCIe Gen3 x1 signal to baseboard eSPI signal to baseboard
Front Panel	1 x Front Panel signal to baseboard (Power LED, HDD LED, Speaker (Buzzer), Power Button, Reset Button)
CAN	2 x CAN Bus signal to baseboard
GPIO	1 x 6-bit GPIO signal to baseboard
SDIO	1 x 4-bit SDIO signal to baseboard
I2C	4 x 4-pin wafer signal to baseboard
I2S	1 x 4-pin wafer signal to baseboard
SMBus	1 x 4 pin wafer signal to baseboard
TPM	Intel® PTT (support TPM 2.0)
Watchdog Timer	Software Programmable support 1~255 sec system reset
Power Supply	5V DC
Operating Temperature	0°C ~ 60°C
Storage Temperature	-30°C ~ 70°C
Humidity	5% ~95 non-condensing
Dimensions	82 x 50 mm
Certification	CE/FCC Compliant

Optional Accessories



iSMC-CB-R10



CB-USB02A-RS



32102-000100-200-RS

Packing List

1 x iSMC-ASL single board computer with Cooler Module
1 x QIG

Ordering Information

iSMC-ASL-N2C-R10	SMARC® Rev. 2.1 module supports Intel® N-series N7 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-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

Optional Accessories

iSMC-CB-R10	Base Board for SMARC® Rev. 2.1 module
32102-000100-200-RS	SATA power cable, MOLEX 5264-4P to SATA15P
CB-USB02A-RS	Dual port USB cable with bracket, 300mm, P=2.00