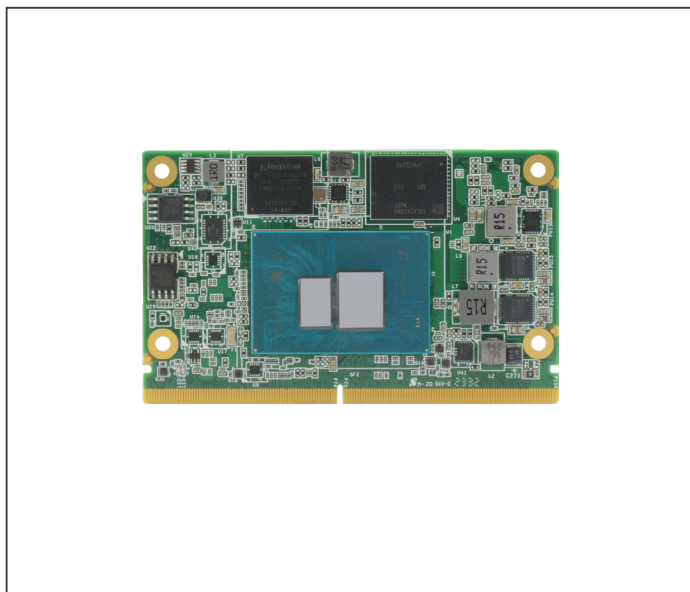




SMARC Module with Intel Atom® Processor x7000RE Series



## Features

- LPDDR5x x 1, up to 16GB
- eMMC, up to 64GB
- DP++ x 2, eDP x 1
- USB 3.2 Gen 2 x 2, USB 2.0 x 6
- PCIe Gen 3 [x1] x 3, max 1x PCIe[x2]
- Intel® Ethernet Controller I226-IT x 2
- 5V input
- SMARC Module size 82mm x 50mm



## Specifications

System	
Form Factor	SMARC Module
CPU	Intel Atom® x7835RE Processor (8C, up to 3.6 GHz, 12W) Intel Atom® x7433RE Processor (4C, up to 3.4 GHz, 9W) Intel Atom® x7213RE Processor (2C, up to 3.4 GHz, 9W) Intel Atom® x7211RE Processor (2C, up to 3.2 GHz, 6W)
Chipset	Integrated with Intel® SoC
Memory	Onboard LPDDR5(x) 4800MHz, up to 16GB
Storage	eMMC, up to 64GB
BIOS	AMI UEFI
MTBF (Hours)	2,614,335
Wake On LAN	Yes
Watchdog Timer	255 Levels
Real Time Clock	RTC x 1
Boot Select	Module eMMC Flash, SATA, USB
Security	TPM 2.0
Display	
Graphics Controller	Intel® UHD Graphics
Video Output	Display: DP++ x 2, up to 3840 x 2160 eDP x 1, up to 3840 x 2160
I/O Interfaces	
Ethernet	Intel® Ethernet Controller I226-V/IT 2.5GbE x 2
USB	USB 2.0 x 6, USB 3.2 x 2
Serial Port	2-Wire UART x 2 (Tx/Rx) 4-Wire UART x 2 (Tx/Rx/RTS/CTS)
Audio	High Definition Audio Interface
PCIe	PCIe Gen 3 [x1] x 3 (Max PCIe [x2] x 1)
CANBus	—
MIPI-CSI	MIPI CSI x 2
GPIO	7-bit (up to 14-bit by customization)
Other Interfaces	SATA 6Gb/s x 1 GP_I2C x 1 SMBus x 1
Power	AT (default)/ATX, switch by BIOS
Power Requirement	+5V for ATX / AT
Power Consumption	Intel® Core™ x7835RE, 5.03A @+12V

## Environmental And Mechanical

Dimension	3.23" x 1.97" (82mm x 50mm)
Weight	0.14 lb. (0.06Kg)
Operating Temperature	-4°F ~ 158°F (-20°C ~ 70°C) -40°F ~ 185°F (-40°C ~ 85°C)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
Certification	CE/FCC Class A
OS Support	Windows® 10 (64-bit) / Windows 11(Enterprise) Linux Ubuntu 22.04.2/Kernel 5.19
Support Protocol	—

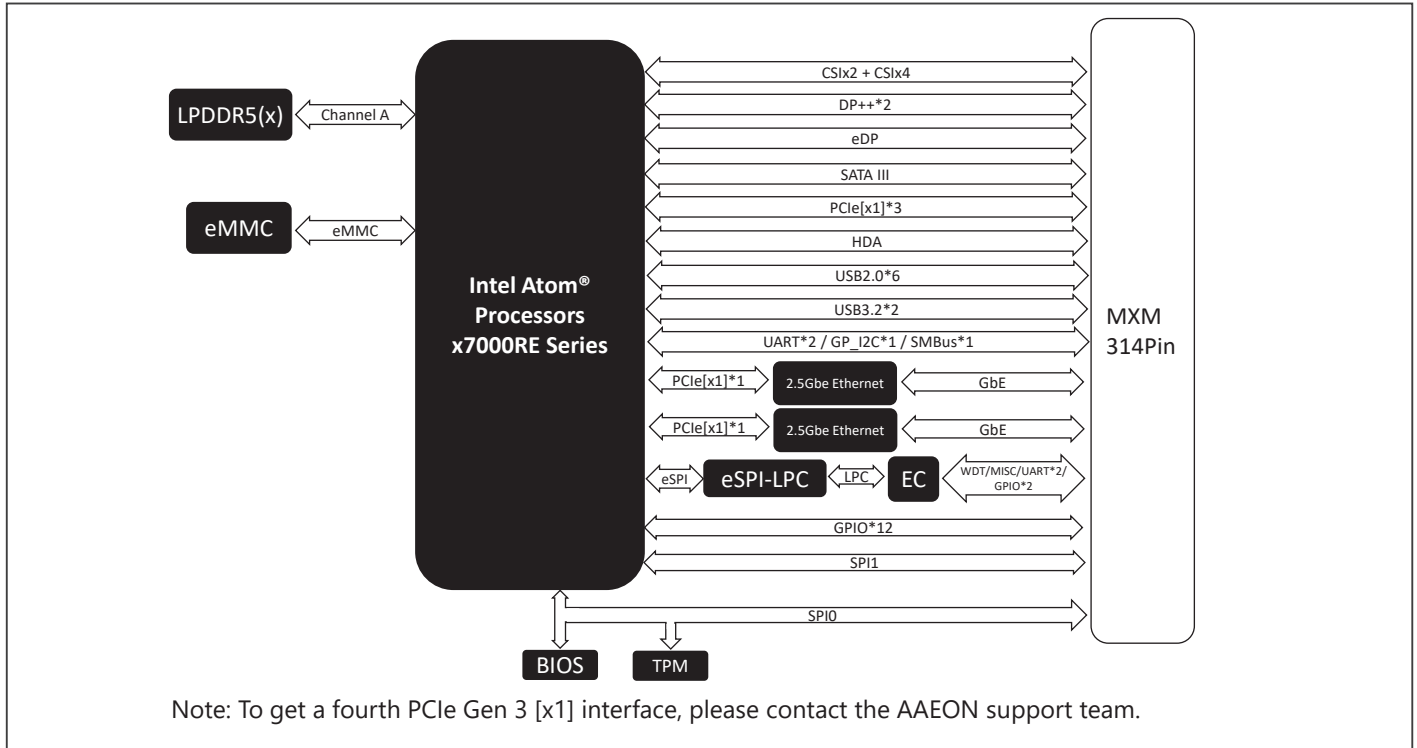
## Packing List

- uCOM-ASL

## Optional Accessories

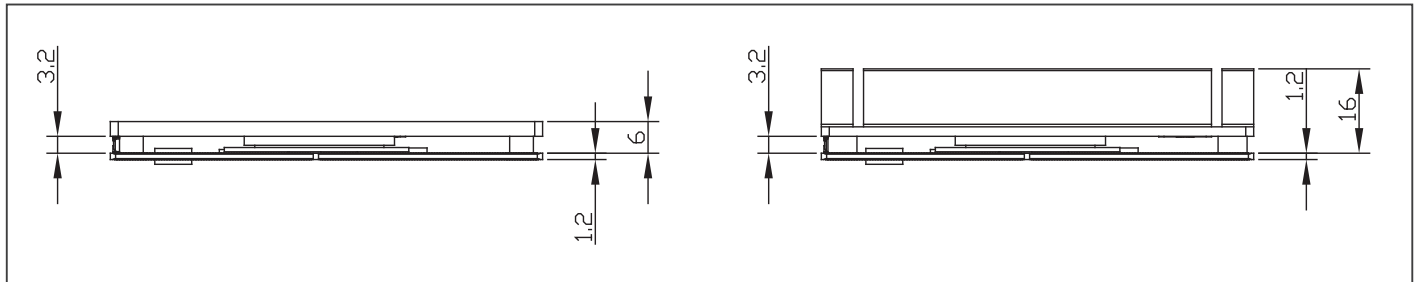
Part Number	Description
uCOM-ADN-FAN01	Cooler.82*42*16mm.4pin
ECB-960T-A15-0001	SMARC Carrier.2DP.LCD.2LAN.6USB.SATA.4COM.PCIe.HDA.12V.A1.5 for x86
uCOM-ADN-HSP01	Heat Spreader.82x42x6mm.Black

## Block Diagram



## Dimension

Unit: mm



## Ordering Information

Part Number	Form Factor	CPU	Memory	ECC support	Display	Storage	LAN	USB	UART	Expansion	Power	Temperature	Others
uCOM-ASLW2-B10-0001	SMARC	Intel Atom® x7835RE Processor	16GB LPDDR5	—	eDP x 1 DP++ x 2	64GB eMMC	Intel® Ethernet Controller I226-IT x 2	USB 3.2 x 2 USB 2.0 x 6	4-wire UART x 2, 2-Wire UART x 2	PCIe [x1] x 3	+5V	-40°C ~ 85°C	LPC, GPIO 7-bit, I2C, SMBus
uCOM-ASLW2-B10-0002	SMARC	Intel Atom® x7433RE Processor	8GB LPDDR5x	—	eDP x 1 DP++ x 2	64GB eMMC	Intel® Ethernet Controller I226-IT x 2	USB 3.2 x 2 USB 2.0 x 6	4-wire UART x 2, 2-Wire UART x 2	PCIe [x1] x 3	+5V	-40°C ~ 85°C	LPC, GPIO 7-bit, I2C, SMBus