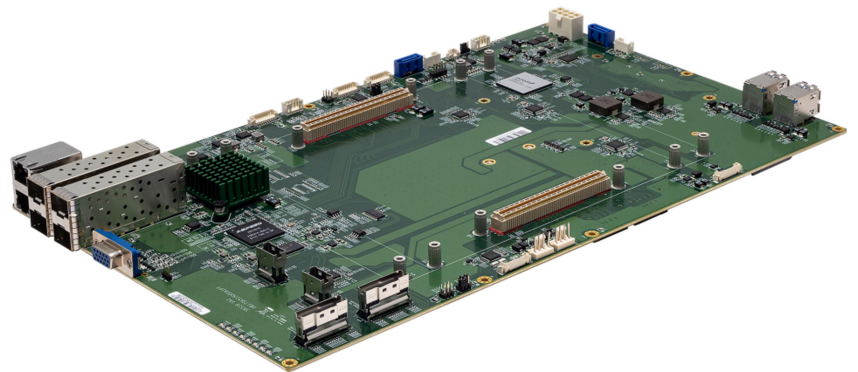




# SK518-EP

**COH-HPC Server Type D Carrier Board with PCIe/104,  
Slim-SAS Express Expansions Extreme temperature -40°C  
to 85°C**



Extended  
Temperature  
+85°C  
-40°C

- COM-HPC Server (D) Support AMD EPYC 7003 Series
- PCIe/104 Express Expansion Slot for Rugged StackPC
- Multi-Expansion Slots :
  - 4 x Slim-SAS(Vertical) (2 x PCIe Gen4 x 4 / 2 x PCIe Gen4 x 8)**
  - 1 x mPCIe(Full Size)**
  - 2 x M.2 2280 M-Key(PCIe Gen4 x 4)**
- I/O : 2 x GbE, 1 x VGA, 2 x SATAIII, 2 x COM(RS232), 4 x USB3.0, 2 x USB2.0, 1 x DIDO
- 12V DC Input
- Extreme Temperature -40°C to 85°C

# Specifications

## SYSTEM

CPU	AMD EPYC 7003 Series : EPYC 7773X, 64C/128T, 2.2/3.5GHz, 768M Cache, TDP : 280W EPYC 7763, 64C/128T, 2.45/3.5GHz, 256M Cache, TDP : 280W EPYC 7713, 64C/128T, 2.0/3.675GHz, 256M Cache, TDP : 225W
Memory type	DDR4 R-DIMMs up to 768GB
Chipset	On CPU Module
Storage	SlimSAS/M.2/SATA interface
Watchdog	On CPU module : 1-255 sec. or 1-255 min. software programmable and can be generate system reset.

## EXPANSION SLOT

PCIe/104 (Type2)	1(2*PCIe Gen3 x 4/4*PClEXGen3 x 1/2*SATA)
Slim-SAS (Vertical)	2(PCIe Gen4 x 8)
Slim-SAS (Vertical)	2(PCIe Gen4 x 4)
MiniPCIe (Full Size)	1(PCIe Gen3 x 1)
M.2	2(M.2 2280 M-Key)(PCIe Gen4 x 4)

## DISPLAY

Chipset	On CPU Module / AST2510
VGA	1

## ETHERNET

Chipset	1 x Intel® I210iT 1 x C827
IPMI	AST2500 by request

## EXTERNAL I/O

VGA	1
USB3.0	4
10GbE	4(No Function)

GbE	2
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### **INTERNAL I/O**

USB2.0	2(Header)
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DIDO	1(4in/4out)
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SATAIII	2
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SATA Power	2
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Serial	2 (RS232)
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SM BUS/I2C BUS	1
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LPC	1
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System Fan	1
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CPU Fan	1
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Front Panel Control	1
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Power Connector	1(2 x 4-pin terminal block)
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### **MECHANICAL AND ENVIRONMENTAL**

Form Factor	COM-HPC Carrier Server Type D
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Power Type	DC-IN 12V
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Dimension	350mm x 210mm
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Operating Temperature	-40 to 85°C
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Storage Temperature	-40 to 85°C
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Relative humidity	10% to 90%, non-condensing
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### **STANDARD COMPLIANCE**

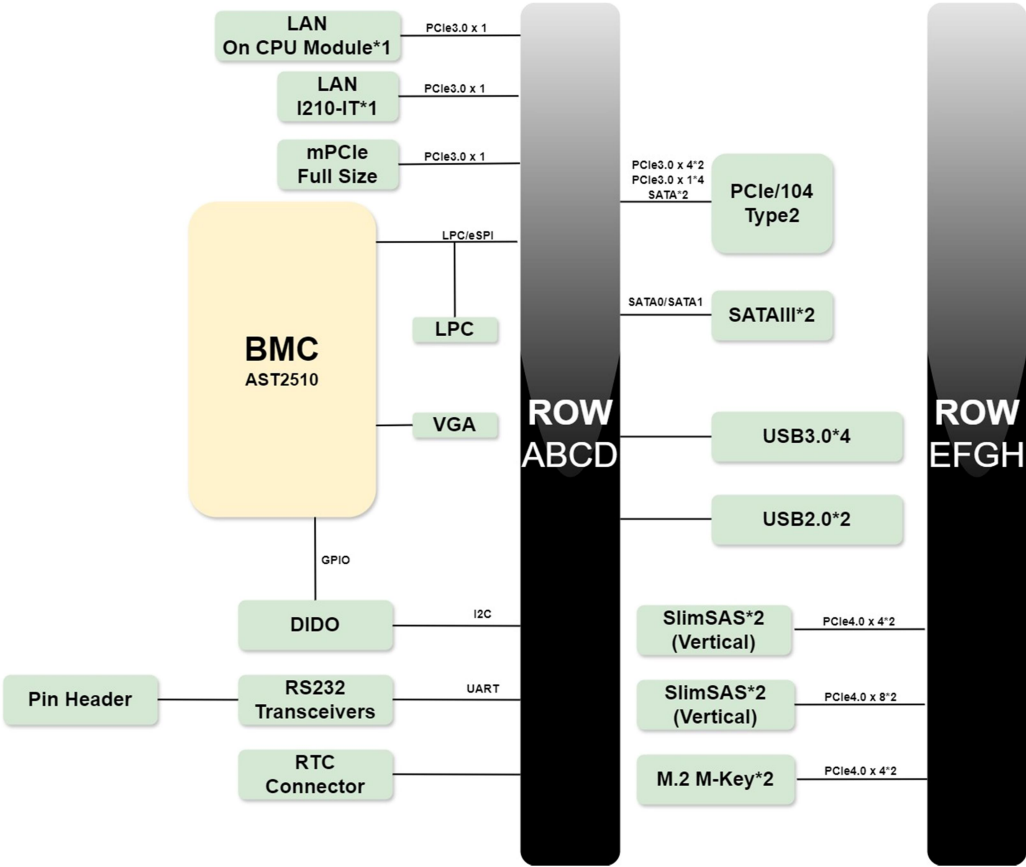
Standard Compliance	CE/FCC
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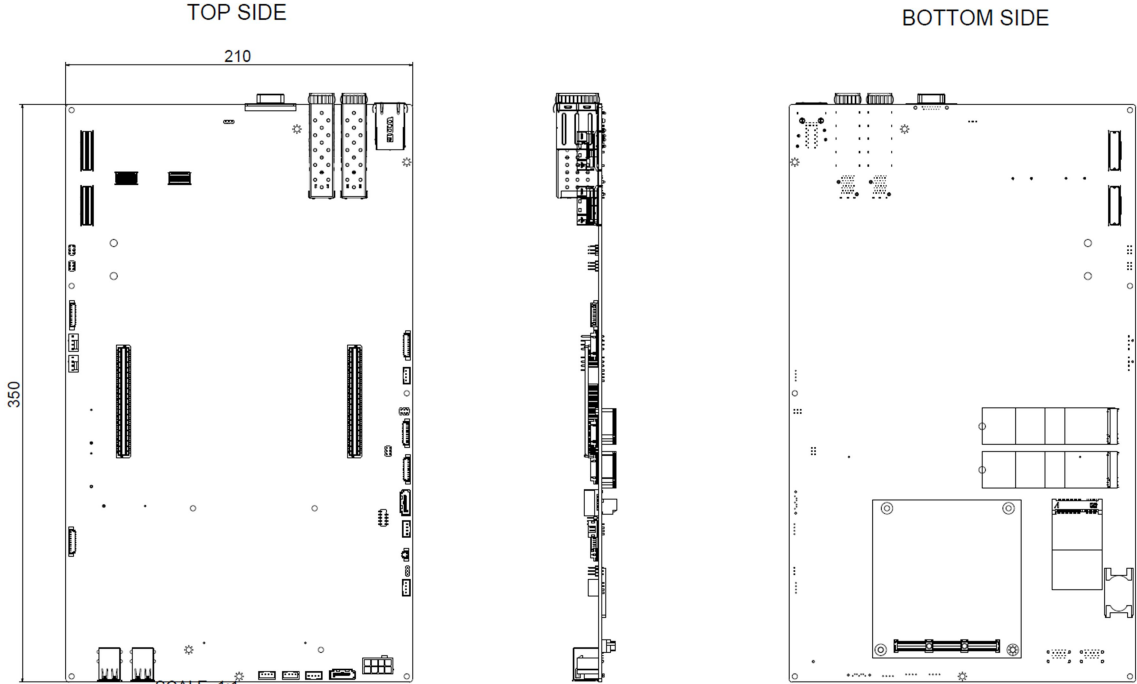
### **OS**

OS	On CPU Module
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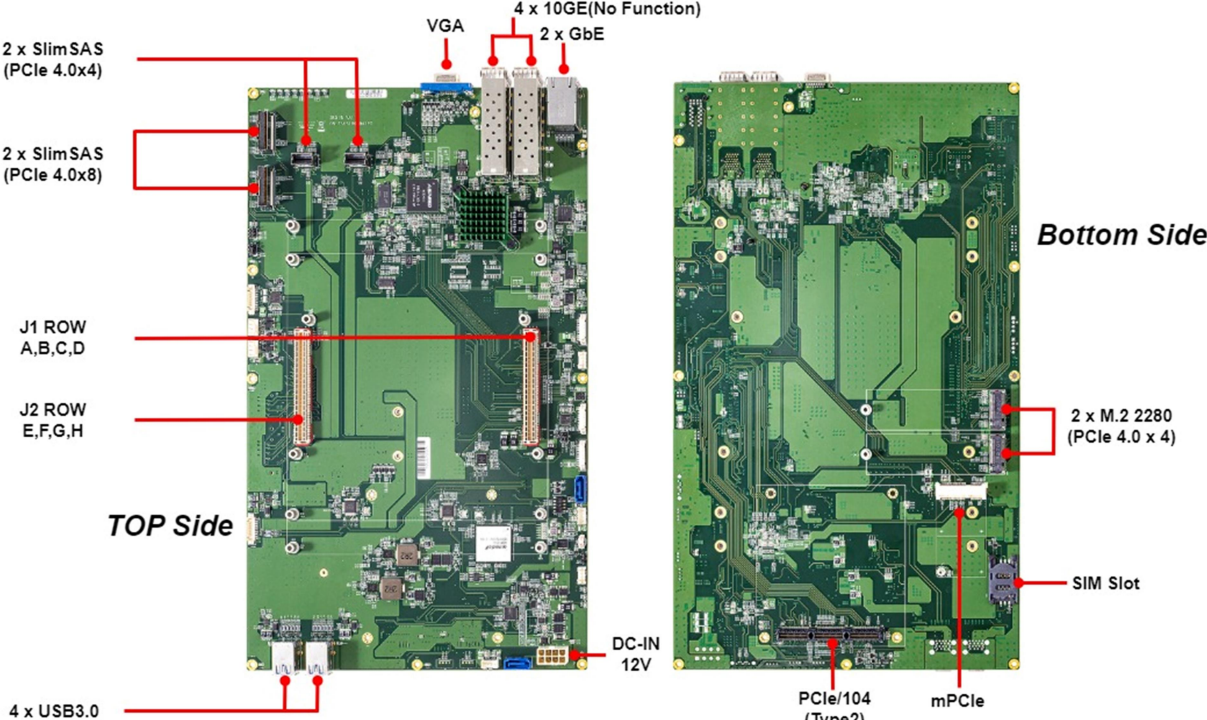
# Block Diagram



# Dimension



# Appearance



## CPU/GPU Table

### CPU Products List

	CPU	SPEC
AMD	EPYC 7773X	64C/128T, 2.2/3.5GHz, 768M Cache, TDP : 280W
	EPYC 7763	64C/128T, 2.45/3.5GHz, 256M Cache, TDP : 280W
	EPYC 7713	64C/128T, 2.2/3.675GHz, 256M Cache, TDP : 225W

### GPU Products List

GPU	CUDA Cores	Memory	TDP
NVIDIA® RTX A4500	5,888 CUDA Core	GDDR6 16GB	80W
NVIDIA® RTX A2000	2,560 CUDA core	GDDR6 8GB	60W

## Ordering Information

COMe Type	Model Name	Configuration
COM-HPC	SK518-EP7773X-A45	CPU : EPYC 7773X / MXM GPU :RTX A4500
	SK518-EP7763-A20	CPU : EPYC 7763 / MXM GPU :RTX A2000
	SK518-EP7713-A20	CPU : EPYC 7713 / MXM GPU :RTX A2000