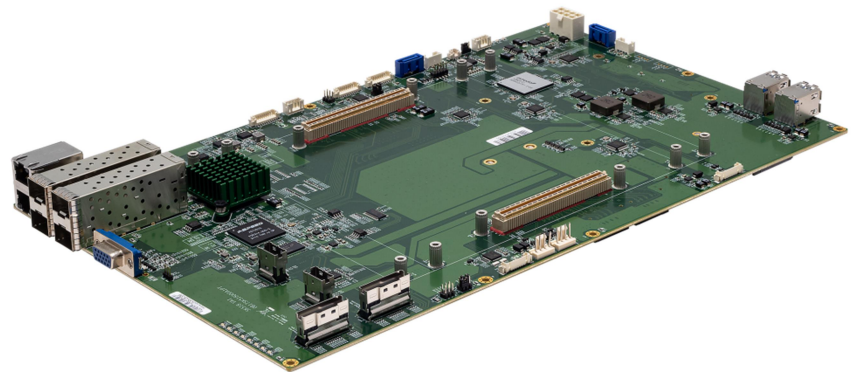




SK518

**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 Ampere Altra/Intel ICE-Lake HCC
- 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, 4 x 10GbE, 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	Ampere Altra : Up to 80 Arm-based cores at 175W TDP Intel ICE-Lake HCC : Up to 20 cores at 118W TDP
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
GbE	2

INTERNAL I/O

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

MECHANICAL AND ENVIRONMENTAL

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

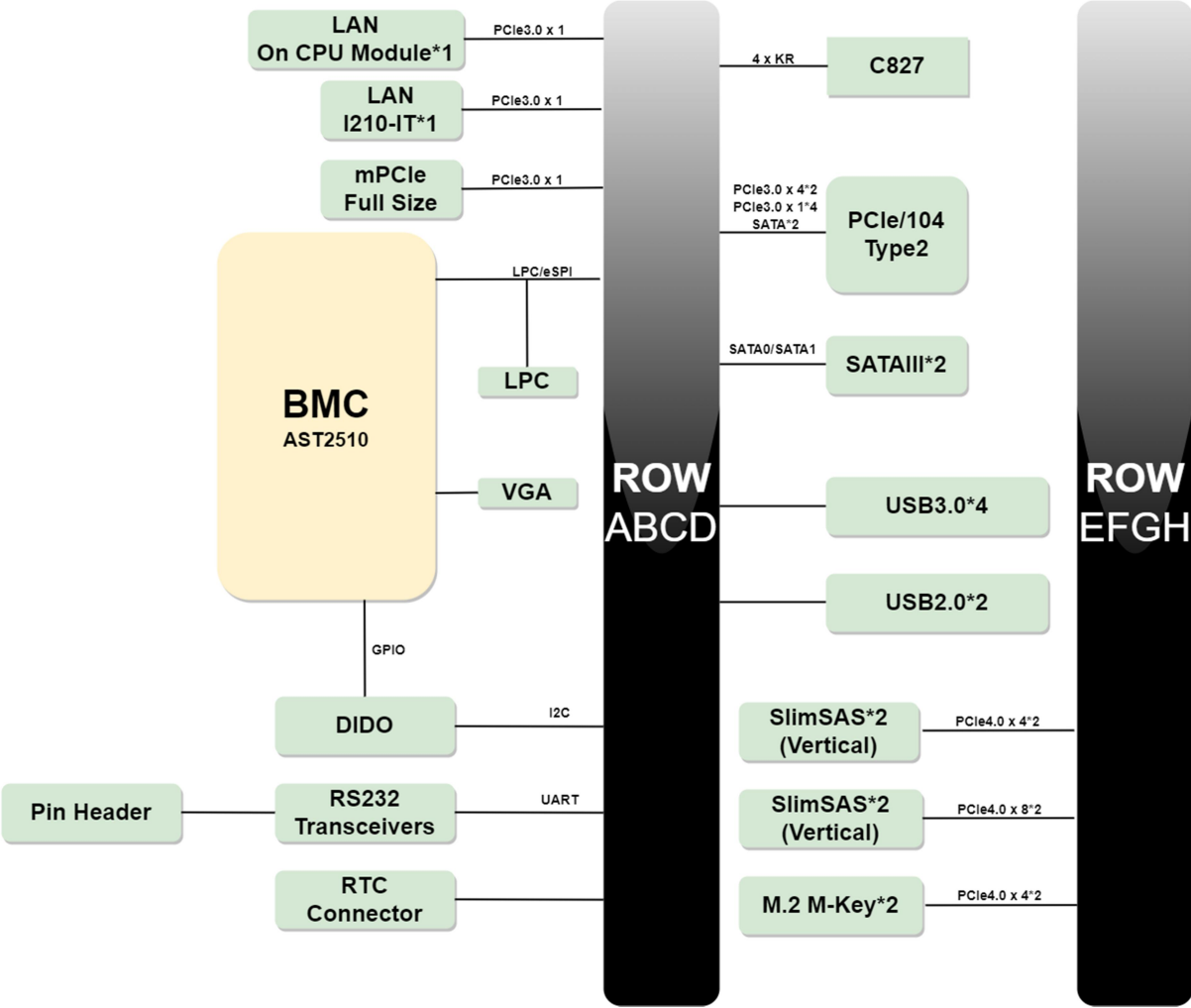
STANDARD COMPLIANCE

Standard Compliance	CE/FCC
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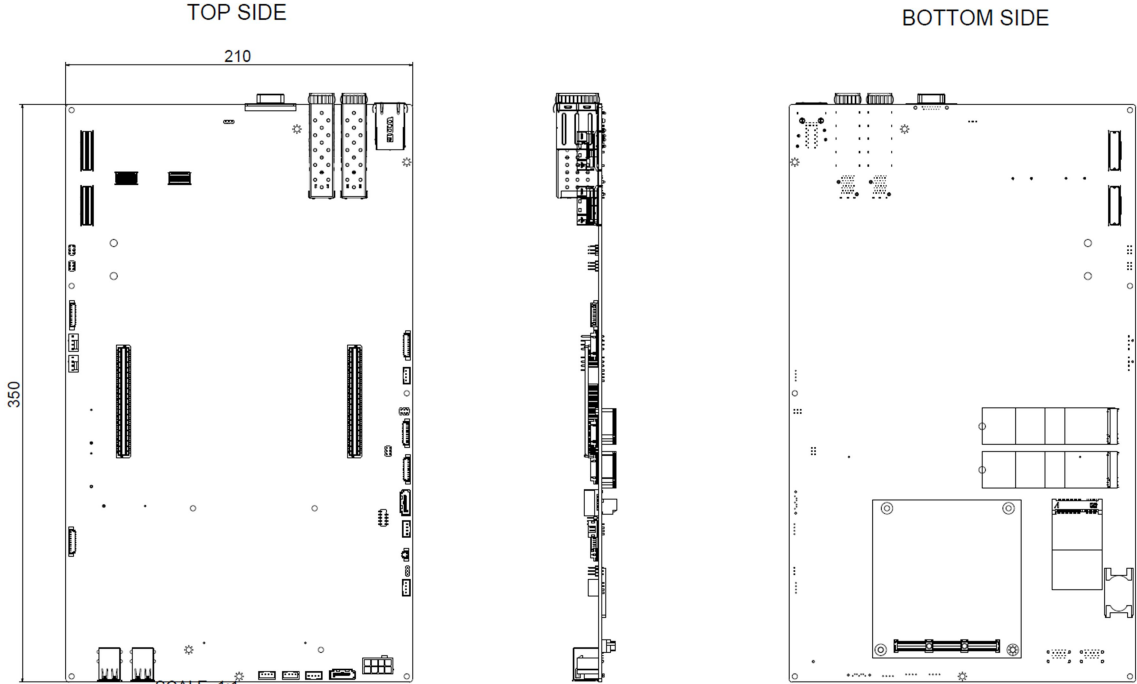
OS

OS	On CPU Module
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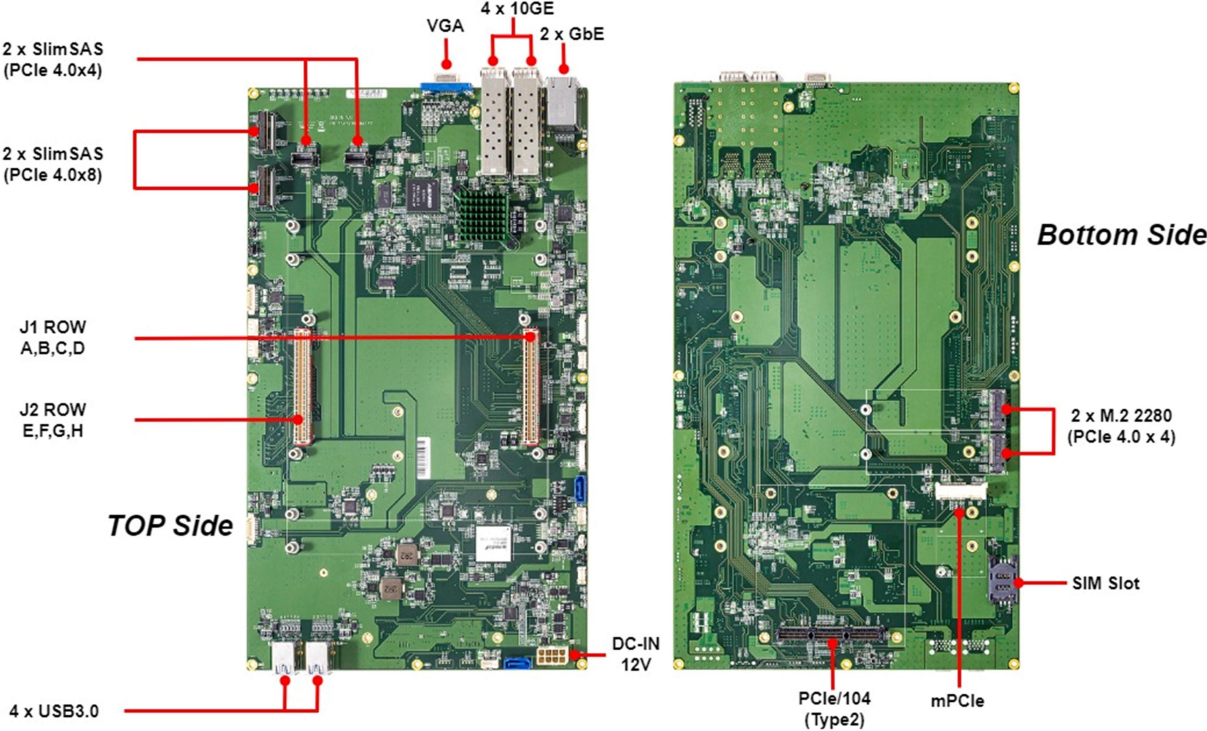
Block Diagram



Dimension



Appearance



CPU/GPU Table

CPU Products List

	CPU	SPEC
Ampere	Ampere Altra	Up to 80 Arm-based cores at 175W TDP
Intel	Intel ICE-Lake HCC D-2700 Series	Up to 20 cores at 118W TDP

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
Intel® Arc™ A370M	8XeCUDA core	GDDR6 4GB	30-50W
Intel® Arc™ A730M	24XeCUDA core	GDDR6 12GB	80-120W