THOR11-D27-HSC

Military Virtualisation Super computer Server

- Intel® Xeon® Ice Lake-D D-2796NT, 20 Cores 2.0 GHz Processor
- DDR4 up to 512GB ECC RDIMM
- OS- 1x M.2 NVMe (Up to 8TB)
- Data - 2x SATA SSD (Up to 32TB)
- Expansions : 1 PCIe 4.0 x16 FHFL Slot or 1 PCIe 4.0 x16 HHHL slot
- 100~264 VAC 800W Redundancy PSU
- NIC: Dual 25GbE SFP, Dual 10Gbase-T, Quad 1Gbase-T
- Extreme Temperature Support -20°C to +60°C
- Vibration MIL-STD-810G, Method 514.7, Shock MIL-STD-810G, Method 516.7

SYSTEM SPEC

System

CPU	Intel ICELAKE-D HCC D-2796NT, 20Cores 2.0 GHz Processor up to 120W
Memory type	512GB DDR4 3200MHz RDIMM ECC
Chipset	SoC

Storage

SSD	1TB/8TB SATAIII SSD

Expansion Slots

PCIe Configuration	1 PCIe 4.0 x16 FHFL slot or 1 PCIe 4.0 x16 HHHL slot

Ethernet

Ethernet	Dual 25GbE SFP28 (SoC) Dual 10GBase-T (Intel X550-AT2) Quad 1GBase-T (Intel i350-AM4)

RAID

RAID	Support RAID 0,1,5,10

OS

OS	Windows 10 64bit

Power

AC　PSU	2 x 110/220V 800W Redundancy PSU
Dimension	19" Rack mounting
	430 x 400 x 44 mm (W x D x H)　Under 400mm depth
	Front I/O
	Front Power Input Port
Weight	$\leqq$ 12kg

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Front I/O

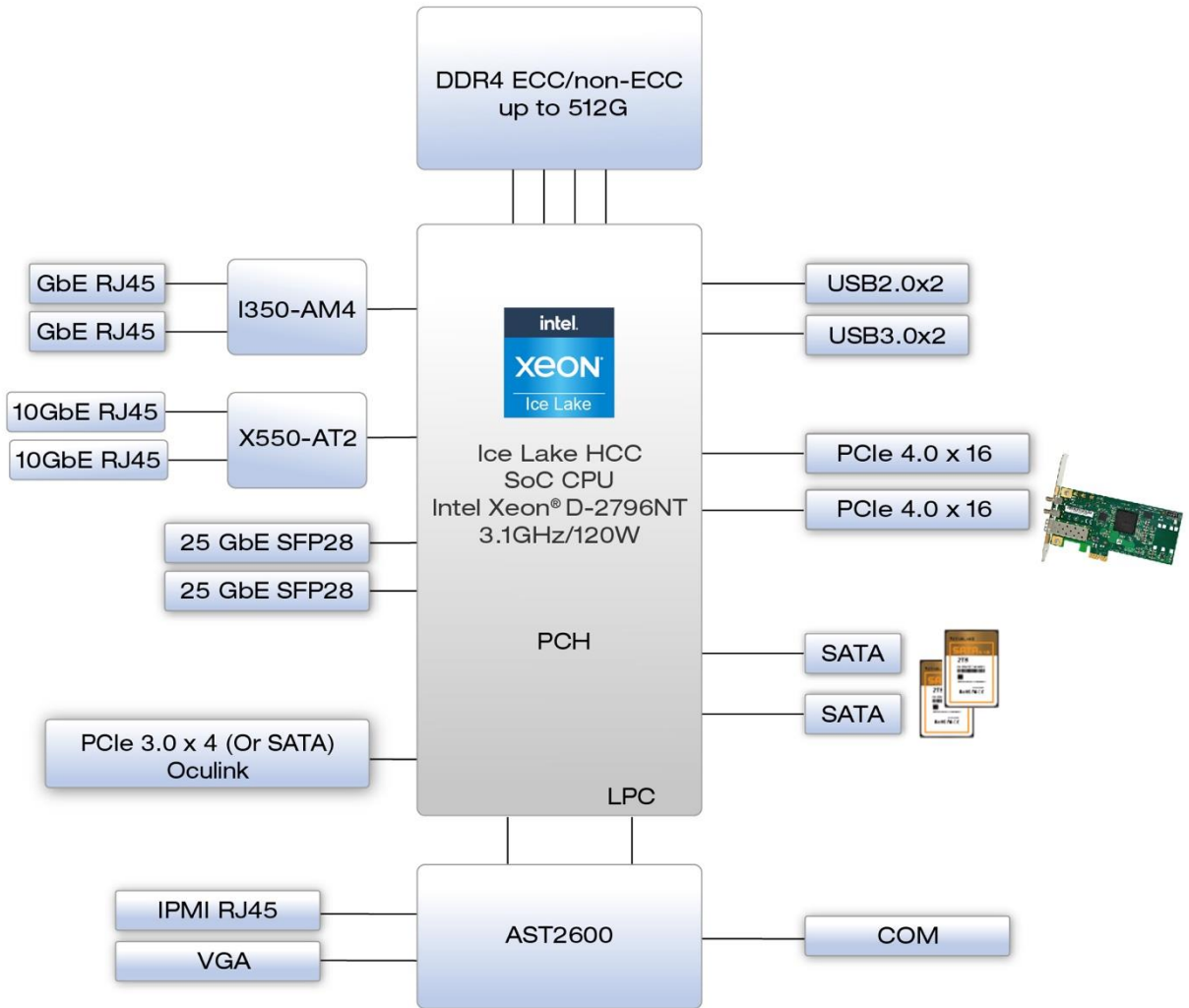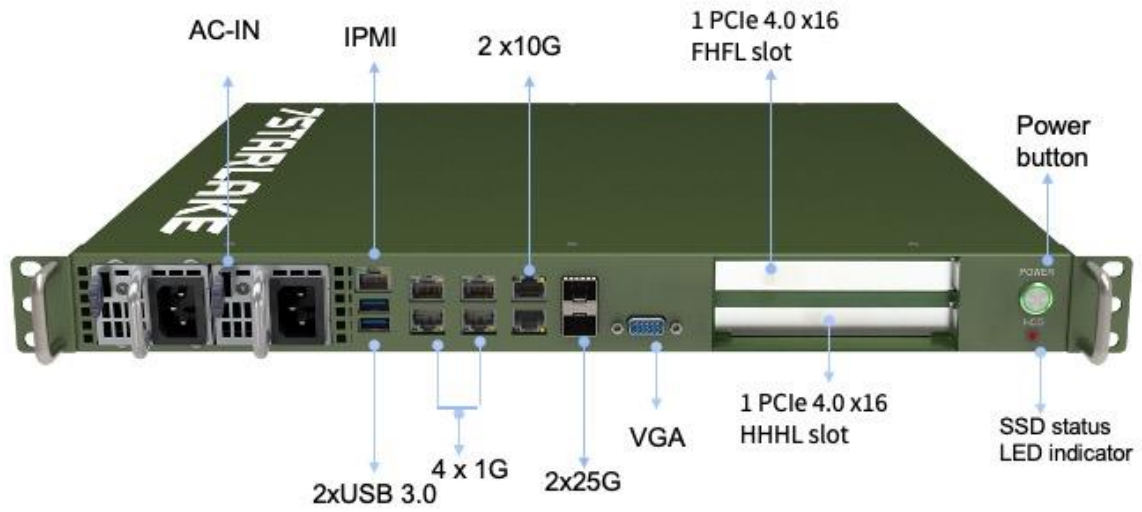|	
IPMI	1x IPMI
USB	2x USB 3.0
LAN1, 2	2x 25GbE SFP28
LAN3, 4	2x 10G Base-T
LAN5, 6, 7, 8	4x 1G Base-T
Display	1x VGA
PCIe Slot	1 PCIe 4.0 x16 FHFL slot or 1 PCIe 4.0 x16 HHHL slot
LED	1x HDD LED (Red) 1x Power on LED (Green)
AC-IN	2x Redundant PSU

Environment

Operating Temp.	-32°C to 55°C
Storage Temp.	-40°C to 71°C
Relative Humidity	5% to 95%, non-condensing
RoHS	RoHS Compliant
Vibration	MIL-STD-810G, Method 514.7
Shock	MIL-STD-810G, Method 516.7

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Block Diagram

DDR4 ECC/non-ECC up to 512G

GbE RJ45
GbE RJ45
I350-AM4

10GbE RJ45
10GbE RJ45
X550-AT2

25 GbE SFP28
25 GbE SFP28

PCIe 3.0 x 4 (Or SATA)
Oculink

intel. XEON Ice Lake

Ice Lake HCC
SoC CPU
Intel Xeon® D-2796NT
3.1GHz/120W

PCH

LPC

USB2.0x2
USB3.0x2

PCIe 4.0 x 16
PCIe 4.0 x 16

SATA
SATA

IPMI RJ45
VGA
AST2600
COM

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Appearance

Dimension