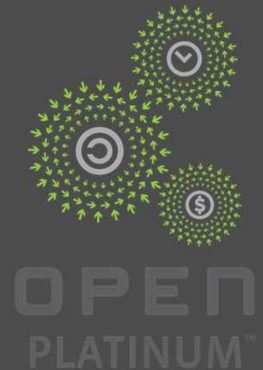




ASUS 3U5N OpenEdge

Nelson Wang,
General Manager of Enterprise Solutions,
Asus Computer International



Consume. Collaborate. Contribute.

Facts About ASUS

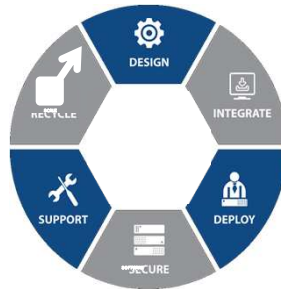
- Established in 1989
- US\$ 15B in revenue
- 17,000 employees worldwide
- No.1 Motherboard manufacturer in the world

ASUS Server Business Unit

- Started delivering server solutions in 1995
- Server HW innovations
- Channel and ODM /OEM worldwide
- Enterprise & Solution with ESB Team



GLOBAL
PROFESSIONAL
SERVICES



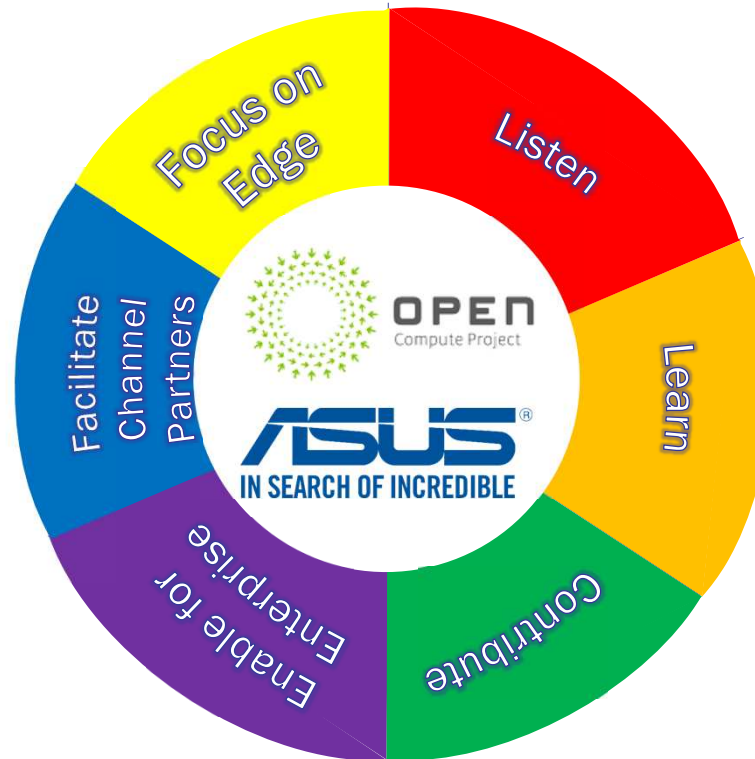
APPLICATION
ORIENTED
END to END
SOLUTIONS



INNOVATIVE HW DESIGN
ON DEMAND
RACK LEVEL HW
COMPOSABLE INFRASTRUCTURE

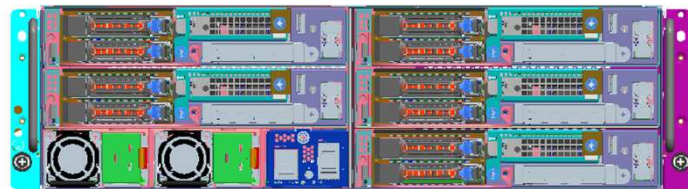


About Asus ESB Team

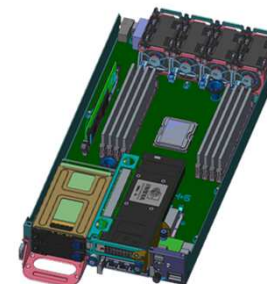


ASUS and Open Source

3U



5x SLED



ASUS
IN SEARCH OF INCREDIBLE

90x Core



2,56Tb DDR4



5x GPU



10x NVMe SSD



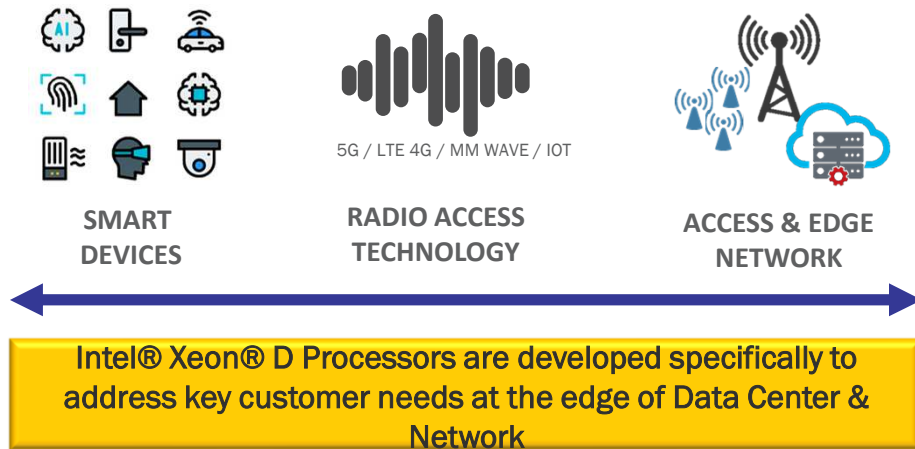
OCP 3.0 Mezz

20x 25G SFP+



ASUS 3U5N OpenEdge: Capacity & Features



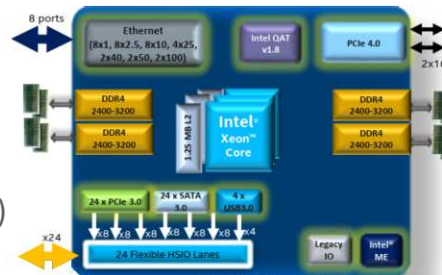


Benefits of Intel® Xeon® D

- Dense packaging SoC, lower TDP
- Wider operating temperature range
- Longer life cycle (up to 15 years)
- Integrated encryption acceleration
- Improved data security

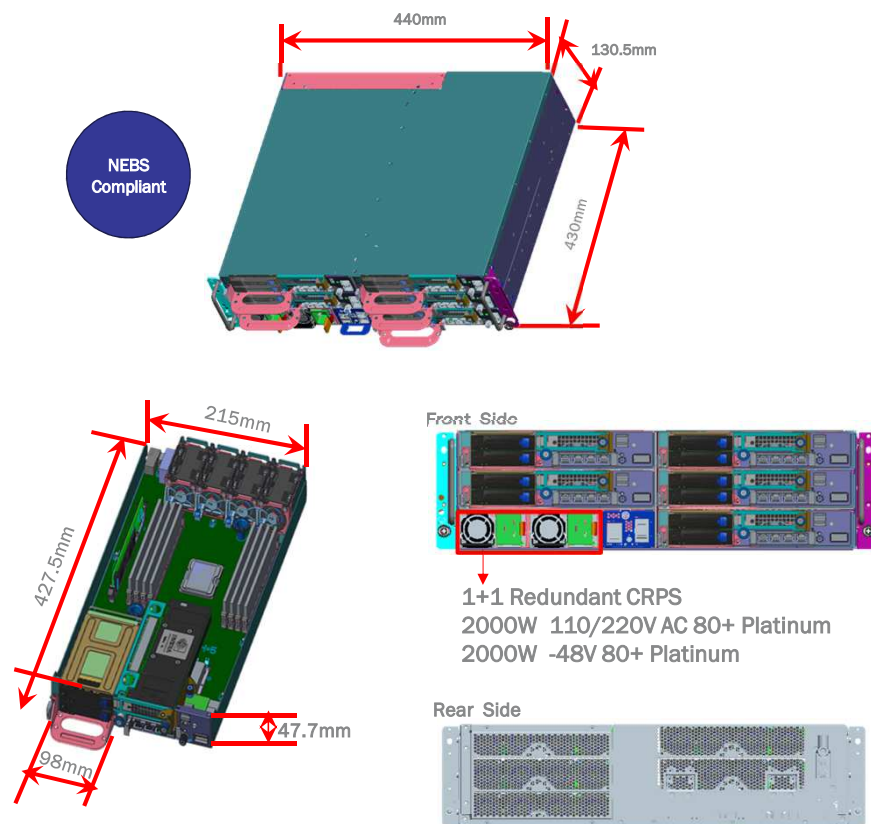
Next Generation Xeon-D

- New IA Instructions (AVX-512)
- Up to 20 cores
- DDR-4 / 2933; 4 channels; 2DPC
- Integrated 100GbE
- Supports QAT (Quick Assist Technology)



- Up to 15 years of life cycle
- As wide as -40C to 85C temperature
- PCIe-Gen 4
- Enhanced BootGuard + Trusted Environment
- Faster boot with slim BootLoader

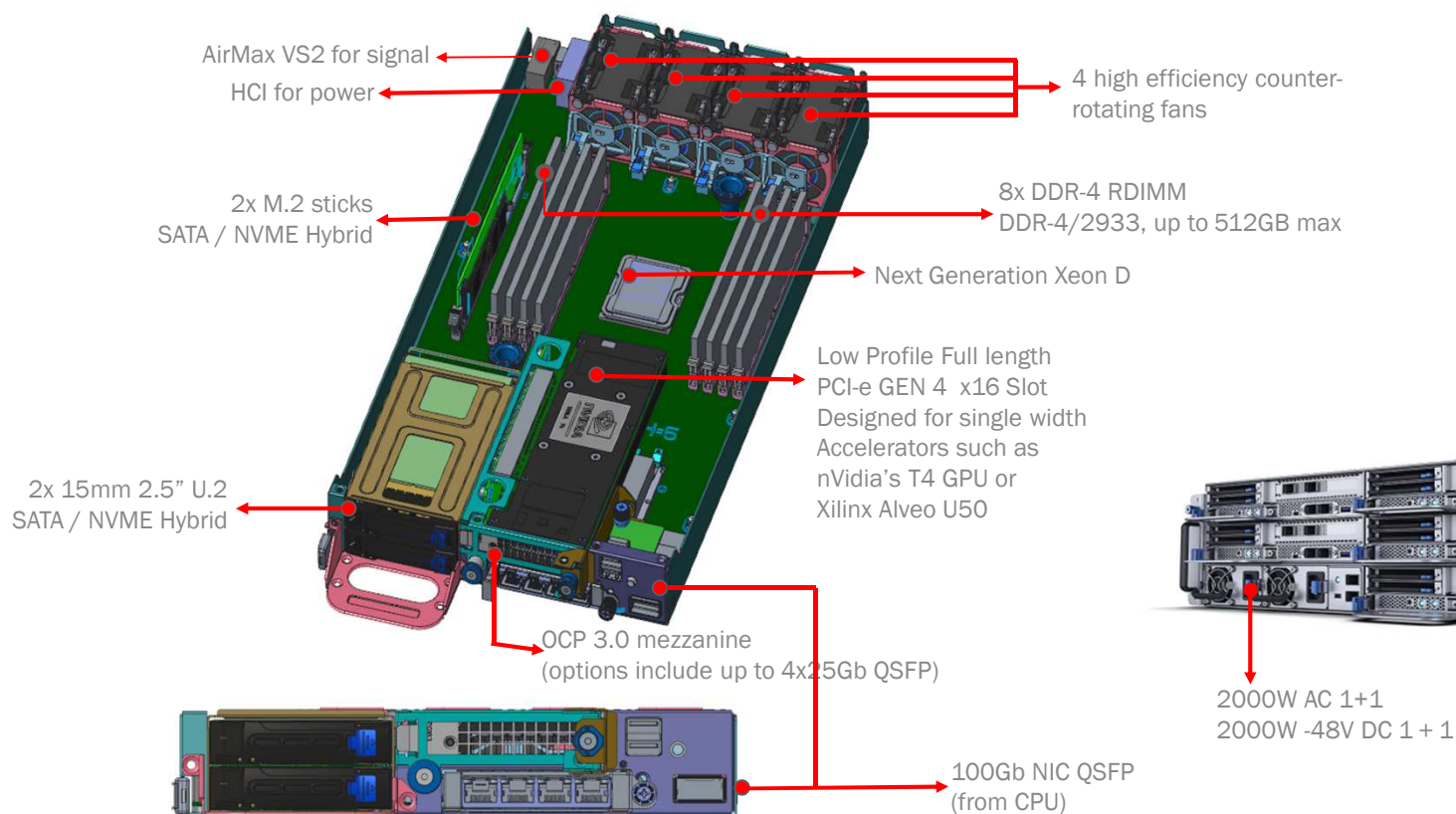
ASUS 3U5N OpenEdge: Why XeonD



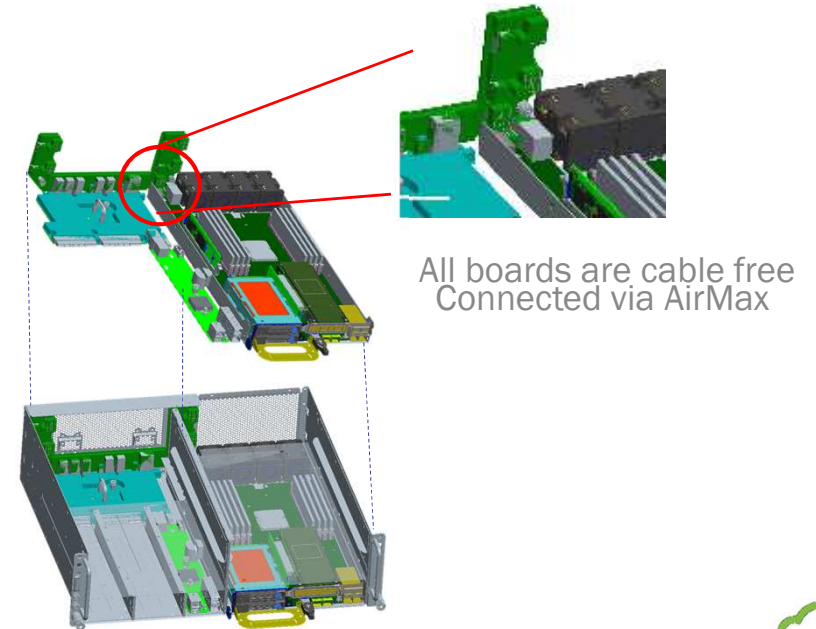
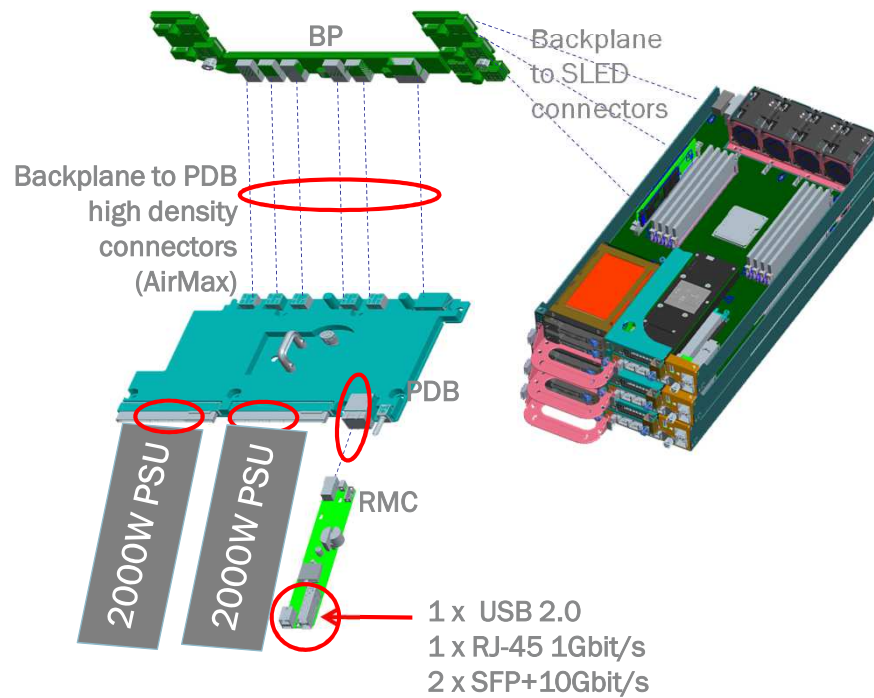
Model	3U5N: Per Sled /Node
Processor	Intel® Xeon® D processor family (up to 110W)
Memory Type	8 x DIMM Up to DDR4 2933 RDIMM/LRDIMM (2 DIMM per Channel)
Memory Size	DDR-4 3200 / 2933 8GB, 16GB, 32GB, 64GB (RDIMM) 32GB, 64GB, 128GB (LRDIMM)
Expansion Slot (Available)	1 x PCI-E Gen4 x16 (HH,HL) 1 x OCP 3.0 Gen4 x 8
Front I/O	1 x USB 2.0 port 100 GbE (from CPU) (1x100 / 2x50 or 4x25) or Up to 4 x 25Gb SPF+ LAN ports via OCP 3.0 add on card
HDD/ ODD Bay/ M.2	Front: 2 x 2.5" 15mm HDD (SATA, SAS, NVMe) Onboard: 2 x M.2 (Up to 22110, SATA & PCIe)
PSU	1+1 2000W -48 VDC, or 2000W AC 80+ Platinum Redundant CRPS
Server Management	ASMB9-iKVM Onboard
Dimension (W x H x D)	130.5mm(H) x 440mm(W) x 430mm(D); standard 3RU short.
Weight (Full System)	20KG (TBD)



ASUS 3U5N OpenEdge: Spec & Dimension

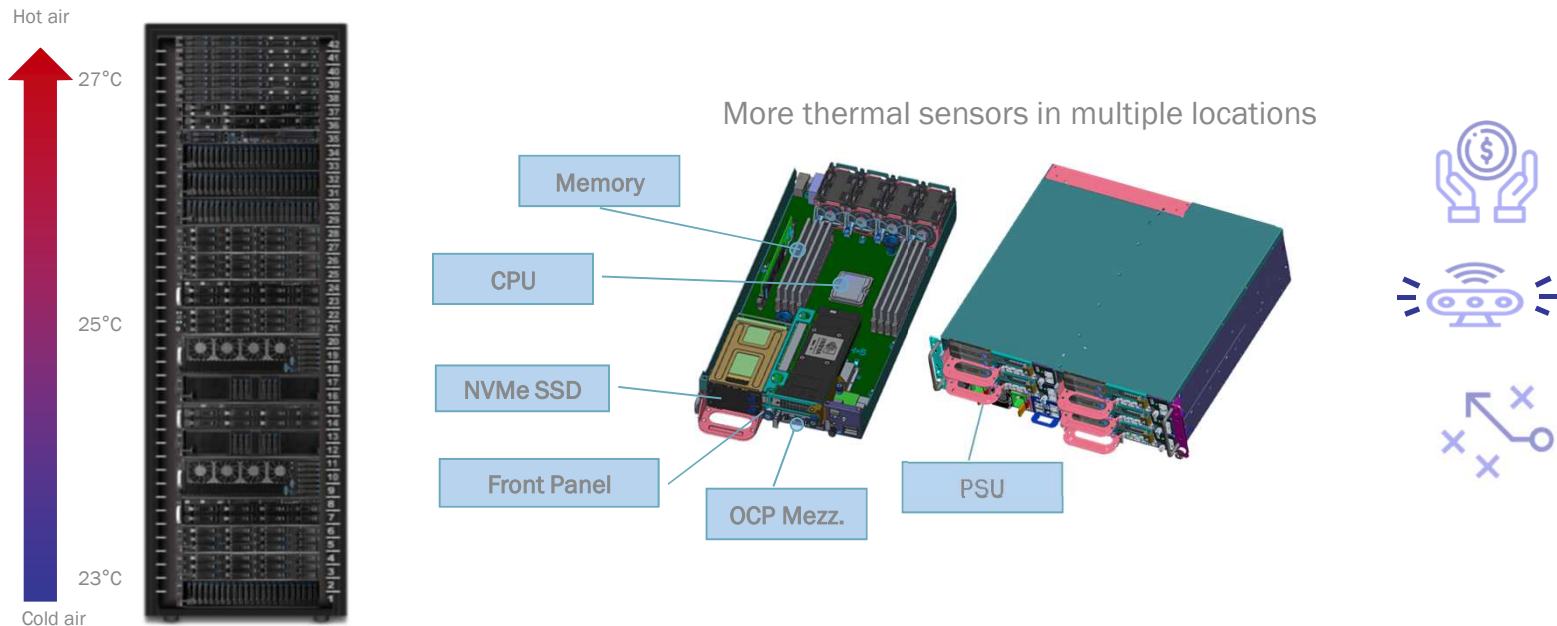


ASUS 3U5N OpenEdge: Compute Sled



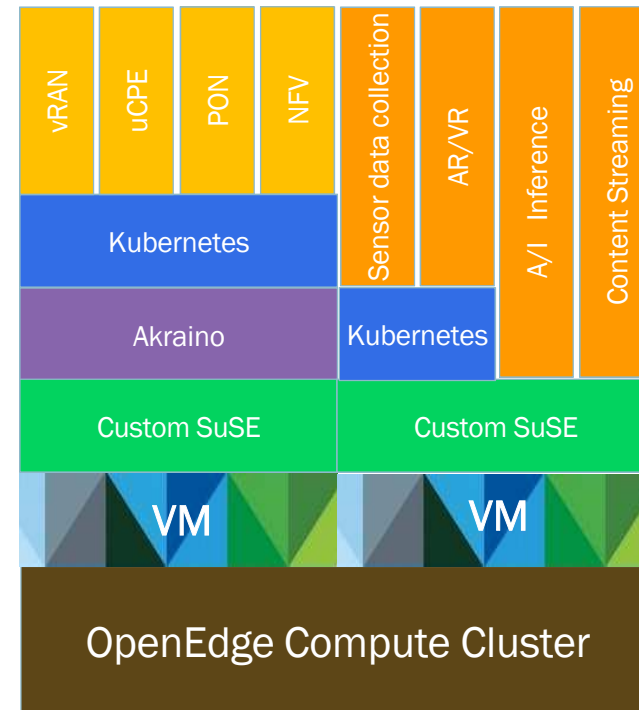
ASUS 3U5N OpenEdge: Cable Free Design

The Thermal Radar design provides internal and external temperature monitoring and enables dynamic fan curve adjustment, lowering fan power consumption up to 20% and reducing TCO which is ideal for extreme workload data center.



ASUS 3U5N OpenEdge: Thermal Radar 2.0

- Deployment Model:
 - Minimum Order Product =
 - OpenEdge Chassis
 - OpenEdge Compute Sled
 - Pre-select CPU: 4/8/16/20 cores
 - Custom configurable with memory, drive device, networking and accelerator
- Complete System :
OpenEdge Chassis + OpenEdge Compute Sled
- Complete System + Akraino :
Akraino on top of custom SuSE for quick boot
- Complete System + Akraino + Kubernetes :
Akraino on top of custom SuSE for quick boot
+ custom configurable Kubernetes Ready Node



ASUS 3U5N OpenEdge: Akraino

THANK
OPEN
Compute Project
YOU
OPEN
Compute Project