RES HD XR6 Blades

20" deep compute, storage and expansion rugged blades

- **Intel Xeon Scalable Processors, 22 cores**
- **Dense SAS/SATA and EDSFF NVMe storage**
- **A100 NVIDIA GPU support and other expansion options**
- **Configure and reconfigure as needed**
- **Compact with weight as low as 5lbs**
- **Compatible with RES HD 2U & 3U and HDslim rugged server chassis**

Common specifications for HDC, HDC-U.2, HDP, HDS4, HDS8 and HDS8R

Management and Operating System

Windows®, Linux®, VMWARE® and other hypervisors

IPMI v2.0, Redfish option available

Parameter	Qty	Description
processor	2	Intel® Xeon® Scalable with 22 cores, 44 threads**
memory		up to 1 TB DDR4 ECC 2666 MHz, 16 DIMM
disk on module	2	up to 128 GB per DOM

Input/Output	Qty	Access
USB 3.0 ports	2	front
VGA port	1	front
ethernet ports (RJ45)	4	front (multiple ethernet options)
serial port	1	front (optional)

Multiple Ethernet Options

1 Port:	100 Gbps (QSFP28)
2 Ports:	(2)1GBaseT
	(2) 25 Gbps SFP28
	(2) 10GBaseT
	(1) 1GBaseT + (1) 100 Gbps (QSFP28)
3 Ports:	(2) 1GBaseT + (1) 56 Gbps (QSFP)
4 Ports:	(4) 1GBaseT
	(4) 10GBaseT
	(4) 10 G Eth / SFP+
	(2) 1GBaseT + (2) SFP28 (25/10Gbps)
	(2) 1GBaseT + (2) 56Gbps (QSFP)

All XR6 Blade Specifications

Height:	1.6" (41mm, 1 slot) or height: 3.35" (85mm, 2 slot)
Width:	7 inches (177mm)
Depth:	20.3 inches (515mm)
Weight:	see individual blade specifications

High Density Compute (HDC)

Weight***:	10.5 lb. (4.76 kg)
Expansion:	up to 2 PCIe 3.0 x16 low profile, half length cards or
	1-2 NVMe U.2 drives for up to 64 GB of storage (in lieu of PCIe card)

High Density Storage (HDS4)

Weight***:	15 lb. (6.80 kg) with drives
Storage:	4 front-access SATA, SAS3 or U.2 storage drives for up to 120 TB of storage
Expansion:	low/high profile, half length cards
Front I/O Expansion:	up to 2 PCIe 3.0 x16 + 1 PCIe 3.0 x8
Rear I/O Expansion:	2 PCIe 3.0 x16 + 1 PCIe 3.0 x8 or 1 PCIe 3.0 x16 + 3 PCIe 3.0 x8

High Density Storage (HDS8)

Weight***:	18 lb. (8.16 kg) with drives
Storage:	8 SATA or SAS3 drives for up to 240 TB of storage
Expansion:	low profile, half length cards
Front I/O Expansion:	up to 2 PCIe 3.0 x16
Rear I/O Expansion:	up to 1 PCIe 3.0 x16 + 2 PCIe 3.0 x8

High Density Storage Expansion (HDSE)*

Weight*:	8lbs (3.63kg) with drives
Requirements:	special rear I/O configurations
Storage:	8 SATA or SAS3 drives for up to 240 TB of storage

High Density Storage with Rulers (HDS8R)

Weight***:	18 lb. (8.16 kg) with drives
Storage:	8 EDSFF E1.L drives for up to 256 TB of storage
Expansion:	up to 2 PCIe 3.0 x16, low profile, half length cards
Front I/O Expansion:	up to 2 PCIe 3.0 x16 low profile
Rear I/O Expansion:	up to 2 PCIe 3.0 x16 low profile

High Density PCIe Expansion (HDP)
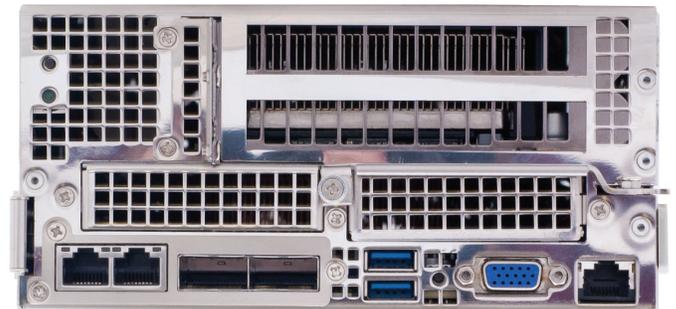
Weight***:	12.5 lb. (5.67 kg), 15 lb. (6.80 kg) with TESLA card
Expansion:	up to 5 PCIe Cards

1. 1 double wide PCIe 3.0 x16 (eg. TESLA GPGPU up to 250 W) 2 PCIe 3.0 x16, low profile, half length cards
2. 1 PCIe 3.0 x8, 1 PCIe 3.0 low profile, half length cards
3. 2 PCIe 3.0 x16 low profile, half length cards and 2 PCIe 3.0 x8 full height, full length cards

***Typical customer specifications. Actual weights are configuration dependent.
*Storage only module. Does not have common specifications.

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