

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 1TB DDR4 ECC 2666MHz, 16 DIMM
disk on module	2	up to 128GB 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: 100Gbps (QSFP28)
- 2 Ports: (2)1GBaseT
(2) 25Gbps SFP28
(2) 10GBaseT
(1) 1GBaseT + (1) 100Gbps (QSFP28)
- 3 Ports: (2) 1GBaseT + (1) 56Gbps (QSFP)
- 4 Ports: (4) 1GBaseT
(4) 10GBaseT
(4) 10G 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***: 10.5lbs (4.76kg)
- Expansion: up to 2 PCIe 3.0x16
low profile, half length cards

High Density Compute with U.2 (HDC-U.2)



- Weight***: 10.5lbs (4.76kg)
- Storage: 2 NVMe U.2 drives for up to 64TB of storage
- Expansion: up to 1 PCIe 3.0x16, low profile, half length card
(in lieu of U.2 SSD)
- Expansion/
Storage Combined: Storage: 1 NVMe U.2 drive for up to 32TB of storage
Expansion: Up to 1 PCIe 3.0x16 low profile, half length card

Custom Expertise

For tailor-made systems with specific security and environmental requirements, email servers@rcy.com

High Density Storage (HDS4)



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

High Density Storage with Rulers (HDS8R)



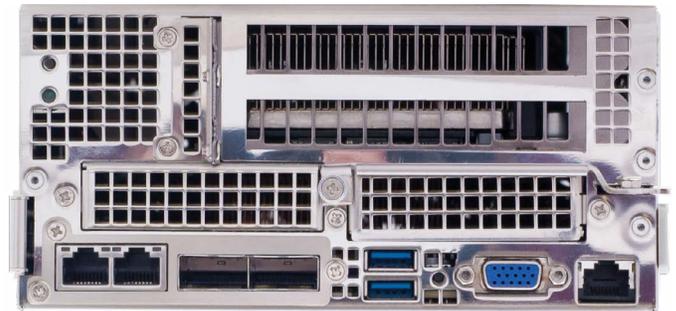
Weight***: 18lbs (8.16kg) with drives
Storage: 8 EDSFF E1.L drives
for up to 256TB of storage
Expansion: up to 2 PCIe 3.0x16, low profile, half length cards
Front I/O Expansion: up to 2 PCIe 3.0x16 low profile
Rear I/O Expansion: up to 2 PCIe 3.0x16 low profile

High Density Storage (HDS8)



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

High Density PCIe Expansion (HDP)



Weight***: 12.5lbs (5.67kg), 15lbs (6.80kg) with TESLA card
Expansion: up to 5 PCIe Cards

- 1 double wide PCIe 3.0x16 (eg. TESLA GPGPU)
2 PCIe 3.0x16, low profile, half length cards
- 1 PCIe 3.0 x 8, 1 PCIe 3.0
low profile, half length cards
- 2 PCIe 3.0x16 low profile, half length cards and
2 PCIe 3.0x8 full height, full length cards

***Typical customer specifications. Actual weights are configuration dependent.

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