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 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+

(4) 10 G EUI / 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 PCle 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 PCle 3.0 x16 + 1 PCle 3.0 x8

Rear I/O Expansion: 2 PCle 3.0 x16 + 1 PCle 3.0 x8 or 1 PCle 3.0 x16 +

3 PCle 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 PCle 3.0 x16

Rear I/O Expansion: up to 1 PCle 3.0 x16 + 2 PCle 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

Custom Expertise

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

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 PCle 3.0 x16, low profile, half length cards

Front I/O Expansion: up to 2 PCle 3.0 x16 low profile Rear I/O Expansion: up to 2 PCle 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 PCle Cards

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

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^{***}Typical customer specifications. Actual weights are configuration dependent.

*Storage only module. Does not have common specifications.