## Hitachi Virtual Storage Platform
### 5000 Series Family Matrix

<table>
<thead>
<tr>
<th>Feature</th>
<th>5200</th>
<th>5200H</th>
<th>5600</th>
<th>5600H</th>
</tr>
</thead>
<tbody>
<tr>
<td>Performance (IOPS)</td>
<td>5.1M</td>
<td>5.1M</td>
<td>33M</td>
<td>33M</td>
</tr>
<tr>
<td>Performance (Latency)</td>
<td>as low as 39µs</td>
<td>as low as 39µs</td>
<td>as low as 39µs</td>
<td>as low as 39µs</td>
</tr>
<tr>
<td>Performance (Bandwidth)</td>
<td>52GB/s</td>
<td>52GB/s</td>
<td>312GB/s</td>
<td>312GB/s</td>
</tr>
<tr>
<td>MAX. Raw Internal Capacity</td>
<td>23.1PB (30TB SSD)</td>
<td>23.1PB (30TB SSD)</td>
<td>69.3PB (30TB SSD)</td>
<td>69.3PB (30TB SSD)</td>
</tr>
<tr>
<td>MAX. Raw External Capacity</td>
<td>287PB</td>
<td>287PB</td>
<td>287PB</td>
<td>287PB</td>
</tr>
<tr>
<td>Data Availability</td>
<td>100% Guaranteed</td>
<td>100% Guaranteed</td>
<td>100% Guaranteed</td>
<td>100% Guaranteed</td>
</tr>
<tr>
<td>Effective Capacity</td>
<td>4:1</td>
<td>4:1</td>
<td>4:1</td>
<td>4:1</td>
</tr>
<tr>
<td>Data-at-Rest Encryption for NVMe and SAS</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>MAX. Number of Drives, Including Spares</td>
<td>33 NVMe SCM</td>
<td>96 NVMe</td>
<td>768 SFF SSD</td>
<td>33 NVMe SCM</td>
</tr>
<tr>
<td>Drive Pack Upgrades (Sold in Packages of 4 Drives)</td>
<td>375GB NVMe SCM</td>
<td>30TB NVMe SSD</td>
<td>15TB NVMe SSD</td>
<td>375GB NVMe SCM</td>
</tr>
<tr>
<td>Max. Flash Media Trays (Sold in Packages of 4)</td>
<td>4x NVMe SSD</td>
<td>32x SAS SSD</td>
<td>4x NVMe SSD</td>
<td>32x SAS SSD</td>
</tr>
<tr>
<td>Max. HDD Media Trays (Sold in Packages of 8)</td>
<td>N/A</td>
<td>32x 10K SAS HDD</td>
<td>N/A</td>
<td>96x SAS SSD</td>
</tr>
<tr>
<td>No. Controller Blocks</td>
<td>1</td>
<td>1</td>
<td>1, 2 or 3</td>
<td>1, 2 or 3</td>
</tr>
<tr>
<td>Nodes Per System</td>
<td>2</td>
<td>2</td>
<td>2, 4, 6</td>
<td>2, 4, 6</td>
</tr>
<tr>
<td>No. Controllers Per System</td>
<td>2</td>
<td>2</td>
<td>4, 8, 12</td>
<td>4, 8, 12</td>
</tr>
<tr>
<td>Hitachi Accelerated Fabric</td>
<td>2x Node Interconnect Switch</td>
<td>2x Node Interconnect Switch</td>
<td>2x Node Interconnect Switch</td>
<td>2x Node Interconnect Switch</td>
</tr>
<tr>
<td>Controller Interconnectivity</td>
<td>4x Fabric Acceleration Modules</td>
<td>4x Fabric Acceleration Modules</td>
<td>8, 16, 24x Fabric Acceleration Modules</td>
<td>8, 16, 24x Fabric Acceleration Modules</td>
</tr>
<tr>
<td>Node Dimensions: Height Width Depth</td>
<td>4U, 6.9” (174mm)</td>
<td>17.6” (446mm)</td>
<td>30.1” (763mm)</td>
<td>4U, 6.9” (174mm)</td>
</tr>
<tr>
<td>Max. Weight per Block</td>
<td>342 lbs. (155kg)</td>
<td>343 lbs. (155kg)</td>
<td>397 lbs. (180kg)</td>
<td>398 lbs. (180kg)</td>
</tr>
</tbody>
</table>
## Host Interface Types

- **FC-NVMe:** 32Gb/s
- **FC:** 16Gb/s
- **FC:** 32Gb/s
- **IBM® FICON®:** 16Gb/s
- **IBM® FICON®:** 32Gb/s
- **IBM® FICON®** (with EDiF): 32Gb/s
- **iSCSI:** 10Gb/s

## MAX HOST Port Count

- **32 x FC-NVMe**
- **32 x FC**
- **32 x FICON**
- **32 x FICON (with EDI)**
- **16 x iSCSI**

## Max Fibre Bandwidth to Host

- **102.4GB/s**
- **102.4GB/s**
- **614.4GB/s**
- **614.4GB/s**

## Back-end Disk Interface and Links

- **32 x SAS or NVMe**
- **32 x SAS or NVMe**
- **192 x SAS and NVMe**
- **192 x SAS and NVMe**

## Max. Cache

- **1TiB**
- **1TiB**
- **2TiB:** 1x Controller Block
- **4TiB:** 2x Controller Block
- **6TiB:** 3x Controller Block

## RAID Supported

- **RAID-** 1* (2D+2D/4D+4D)
- **RAID-5 (3D+1P/7D+1P)**
- **RAID-6 (6D+2P/14D+2P)**
- **RAID-** 1* (2D+2D/4D+4D)
- **RAID-5 (3D+1P/7D+1P)**
- **RAID-6 (6D+2P/14D+2P)**

## MAX. LUN Size

- **256TB**
- **256TB**
- **256TB**
- **256TB**

## MAX. Number of LUNS

- **65,280**
- **65,280**
- **65,280**
- **65,280**

## MAX. Number of Snapshots

- **1,024 per LUN;**
- **1,024 per LUN;**
- **1,024 per LUN;**
- **1,024 per LUN;**

## MAX. Number of Hosts per Fibre Channel Port

- **255**
- **255**
- **255**
- **255**

*RAID 1 selection mirrors blocks across two drives and then creates a striped set across multiple drive pairs. This is commonly referred to as RAID 1+0.*

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**1TB = 1,000,000,000,000 bytes**

**1TiB = 1,099,511,627,776 bytes**

**SFF = small form factor**

**LFF = large form factor**

**SCM = storage class memory**

**NVMe = non-volatile memory express**

**SSD = solid state drive**

**SAS = serial attached SCSI**

**FMD = flash module drive**

**HDD = hard disk drive**

**FC = Fibre Channel**

**iSCSI = internet small computer systems interface**

**EDiF = encryption of data in flight**

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