



## Xitrix® PowerFrame™ R-2540

Mainstream Dual-Socket Server System Featuring the Powerful Performance of the New Intel® Xeon® Processor Scalable Platform Family

The Xitrix PowerFrame R-1540 and R2540 product family delivers robust features and powerful performance in a 1U and 2U form factor for flexibility and ease of adoption. Featuring the Intel® Xeon® processor Scalable family, high PCIe\* lane availability and SAS/SATA/NVMe\* flexibility, it provides a cost-effective option for rack mount or custom systems. The PowerFrame R-1540 and R2540 is ideal for use in small and medium business, storage, networking, web hosting, and security appliances where feature capacity and price-performance balance is key.

**The Intel® Xeon® Scalable platform provides the foundation for a powerful data center platform that creates an evolutionary leap in agility and scalability.**

The Intel® Xeon® Scalable platform provides the foundation for a powerful data center platform that creates an evolutionary leap in agility and scalability. Disruptive by design, this innovative processor sets a new level of platform convergence and capabilities across compute, storage, memory, network, and security. Enterprises and cloud and communications service providers can now drive forward their most ambitious digital initiatives with a feature-rich, highly versatile platform.

### High Storage Flexibility

In a 2U rack chassis, the PowerFrame™ R-2540 provides choices of 8 or 12 x 3.5" or 24 x 2.5" hot-plug HDDs. Datacenters could choose different levels of storage from 6Gb, 12Gb, or enterprise SSD drives to create optimal storage solutions for different applications.

### Support for Intel® Optane™ SSDs and Intel® 3D NAND Solid State Drives

Delivers industry-leading combination of high throughput, low latency, high QoS, and ultra-high endurance to break through data access bottlenecks.

### Key Features:

- ❑ Dual CPU sockets with support for the Latest Intel® Xeon® processor Scalable family
- ❑ 16 DDR4 DIMM slots
- ❑ Up to 12 Hot Swappable 3.5inch SATA / SAS 12Gb/s Drives
- ❑ Up to 24 Hot Swappable 2.5inch Drives
- ❑ Fixed or Redundant Power Supply
- ❑ Operating system boot option via two 80 mm M.2 connectors (x2 and x4 PCIe & SATA)
- ❑ Supports 12GB/s SATA/SAS Raid Controller
- ❑ Networking flexibility with dual 10 Gigabit LAN or dual 1Gigabit LAN
- ❑ Up to 150 Gbps high speed compression via three Intel® QuickAssist Technology (Intel® QAT) engines
- ❑ Supports Latest Microsoft Windows Server Operating System

### Built with Quality, Reliability and Performance

Xitrix® PowerFrame™ Server Products are backed by our design excellence and manufacturing expertise to deliver processing power with high levels of flexibility, manageability and reliability. Product and design quality is paired with 3-year standard warranties and robust technical and incident resolution support to ensure customer satisfaction.

## Technical Specification

<b>Processors</b>	Support for one or two Latest 2nd Generation Intel® Xeon® Scalable Processors Up to 28Cores and 56 Threads per processor
<b>Core Chipset</b>	Intel® C621 Server Chipset
<b>Supported Operating System</b>	Microsoft Windows Server 2019, Server 2016 Standard and Data Center, Small Business Server 2011 Essentials, Small Business Server 2011 Premium Add-on, Windows Home Server 2011, Windows 2008 Standard Server, Redhat* Enterprise Linux 6.0
<b>System Memory</b>	16memory sockets; Capacity: Support up to 512GB RDIMM/1,024GB LRDIMM/2,048GB LDRIMM Memory Type: Supports DDR4 2933 / 2666/2400/2133 R DIMM/LR DIMM Memory Size: 32GB, 16GB, 8GB RDIMM/ 64GB, 32GB LRDIMM
<b>Hard Drive Controller</b>	Intel C621 : 14 x SATA3 (including 2x SATA DOM ports and 2x SATA which switch w/1xM.2 ports), support RAID 0, 1, 5, 10 OCuLink for U.2 - x8 from CPU2 LSI® SATA / SAS Add on RAID Card
<b>Hard Drives</b>	3.5inch Configuration up to 18TB SATA or SAS 6Gb/s 7200RPM Enterprise and Enterprise Value Drives 2.5inch Configurations 300GB, 450GB, 600, 900 and 1.8TBGB SAS 6Gbs Enterprise Drives 2.5inch Nearline SAS 1TB and 2TB 12GB SAS 6Gbs Enterprise Drives 2.5inch All Flash Configurations: Up to 10x 1.8TB SAS SSD or 10x 1.2TB SATA SSD
<b>Drive Bays</b>	Standard 8 Hot Swappable 3.5" SATA / SAS hard drives; 6Gb/s OR 12GB/s SATA Backplane; Optional 12 Hot Swappable 3.5" SATA / SAS hard drives; 6Gb/s OR 12GB/s SATA Backplane; Optional Up to 24Hot Swappable 2.5" SATA / SAS hard drives; 6Gb/s or 12Gb/s SATA Backplane;
<b>Optical Drive</b>	8X USB DVD-RW Super Multi Dive
<b>TPM</b>	Yes (with TPM 1.2/2.0 option)
<b>RAID Controller</b>	LSI SAS3008 SAS 12Gb/s ;RAID levels 0, 1, 1E, and 10 LSI SAS3108 SAS 12Gb/s W/ 1GB Cache ;RAID 0, 1, 10, 5 and 50 support (optional F/W key for RAID 6, RAID 60)
<b>Network Controller</b>	Choice of: 2 x GLAN (RJ45) by Intel i350 PCIE X8 Mezzanine card 2 x 10G Base-T (RJ45) by Intel X540 PCIE X8 Mezzanine card, 2 x 10GLAN (SFP+) by Intel 82599ES PCIE X8 Mezzanine card, 2 x Intel® Ethernet Network Adapter XXV710-DA2 1GbE/10GbE/25GbE PCI Slot
<b>Expansion Slots</b>	PCIe 3.0 x 16 Low Profile Slot - 2 x Mezzanine Type A(1x for OCP LAN, 1x for Storage ) - 2 x Mezzanine Type B - 1 x Mezzanine Type C
<b>Graphics</b>	Integrated Video Graphics controller
<b>GPU Option</b>	Option nVidia Quadro Graphic Card or ATI Fire Pro nvidia Tesla P100, K80, K40
<b>Rear Input / Output</b>	4x USB 3.0 Rear ports, 2 x USB 2.0 Front Port 1x VGA port, 1x GbE RJ45 management port, 4 x 1Gbe RJ45 Gigabit LAN Port
<b>Chassis</b>	2U High Availability Rack-Mount Server Chassis 24 Bay Config: 711 x 482.6 x 87 mm (28" x 19" x 3.5")
<b>Power Supply</b>	800watts Full Redundant Eighty Plus Platinum Power Supply
<b>System Cooling</b>	3x 8038mm Middle blower Fan
<b>Management Feature</b>	IPMI v2.0 Compliant, on board "KVM over IP" support
<b>Server Software Included</b>	Built in System Management Software
<b>Standard Warranty and Service Offerings</b>	Service Offerings 3-Year Limited Parts Warranty & Technical Support Policy; 1-Year Next Business Day On-site Service Optional 3 Years Next Business Day on-site

