



Xitrix® PowerFrame™ T520

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

The Xitrix® PowerFrame™ T-520 Server System is an integrated 5U pedestal (rackable) system with a variety of storage and power supply options. The PowerFrame™ T-520 Server System features the latest Intel® Xeon™ Scalable Processor for powerful performance and flexible feature advantages specific to the small and medium business and storage segments. With 16 DIMMs memory, wide variety of network capability, and PCIe Gen3 I/O slots, PowerFrame™ T-520 provides excellent standard features for a variety of front and back office usage models with plenty of room for growth.

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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 5U rack chassis, the PowerFrame™ T-520 provides choices of 8 x 3.5" or 16 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.

More speed. More bandwidth. More efficient. Next generation DDR4 memory is here.

Overcome one of your greatest server limitations: memory. From networking, cloud computing, and virtualization to HPC, Big Data and more, memory-dependent server applications require increasingly higher densities of memory and higher levels of performance than are attainable on current DDR3 technology. PowerFrame™ T-510 offers 16 Dimm memory slots .

Taking I/O Bandwidth to New Heights with 10/40 gigabit family of adapters

The 10/40 gigabit family of adapters addresses the demanding needs of the next-generation agile data center by providing unmatched features for server and network virtualization, flexibility for LAN and SAN networks, and proven, reliable performance. With network virtualization, the next big trend in creating an agile data center, the Intel® Ethernet Converged Network Adapter XL710 family is ready to help you take that next step. With stateless offloads support for VXLAN, NVGRE, and GENEVE, the Intel Ethernet Converged Network Adapter XL710 preserves application performance for overlay networks. With these offloads it is possible to distribute network traffic across multiple CPU cores.

Technical Specification

Processors	Support for one or two Intel® Xeon® processor Scalable family Up to 28Cores and 56 Threads per processor
Core Chipset	Intel® C621/622 Server Chipset
Supported Operating System	Microsoft Windows Server 2016, Server 2011 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
System Memory	16memory sockets; Capacity: Support up to 512GB RDIMM/1,024GB LRDIMM/2,048GB LDRIMM Memory Type: Supports DDR4 2666/2400/2133 R DIMM/LR DIMM Memory Size: 32GB, 16GB, 8GB RDIMM/ 64GB, 32GB LRDIMM
Hard Drive Controller	Intel C622 : 12 x SATA3+ 1x SATA DOM ports + 1x M.2 ports, support RAID 0, 1, 5, 10 OCuLink for U.2 - x8 from CPU2 LSI® and Adaptec SATA / SAS Add on RAID Card
RAID Controller	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)
Hard Drives	3.5inch Configuration 1TB, 2TB, 3TB, 4TB, 6TB and 8TB 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
Drive Bays	Standard 4 Hot Swappable 3.5" SATA / SAS hard drives; 6Gb/s SATA Backplane; Optional Up to 8Hot Swappable 3.5" SATA / SAS hard drives; 6Gb/s SATA Backplane; Optional Up to 16Hot Swappable 2.5" SATA / SAS hard drives; 6Gb/s SATA Backplane; Optional Additional 4 Hotswappable 2.5inch Front Drive
Optical Drive	24x DVD-RW Super Multi Dive
TPM	Yes (with TPM 1.2/2.0 option)
Network Controller	Standard: Quad Port Gigabit LAN 10/100/1000 Mb/s and 1 x RJ45 Dedicated IPMI LAN port 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
Expansion Slots	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
Graphics	Integrated Video Graphics controller Option: nVidia Quadro Graphic Card or ATI Fire Pro nvidia Tesla P100, K80, K40
Rear Input / Output	4x USB 3.0 ports, 2 x USB 2.0 Front Ports, 1x VGA port, 1x RS232 serial Port, 1x GbE RJ45 management port
Chassis	Xitrix PowerFrame™ Pedestal / Rack 5u Chassis; 620 x 220 x 425 (mm) , 24.4" x 8.7" x 16.7" (Bezel not included)
Power Supply	Standard 600watts High Efficiency Power Supply; Optional 820 Watts / 875 watts Full Redundant Power Supply
System Cooling	Middle: 3 x 92mm (T=25mm), PWM, Hot-swap, Rear: 1 x 120mm, PWM
Management Feature	IPMI v2.0 Compliant, on board "KVM over IP" support
Server Software Included	Built in System Management Software
Standard Warranty and Service Offerings	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

Intel® Turbo Boost Technology requires a server with a processor with Intel Turbo Boost Technology capability. Intel Turbo Boost Technology performance varies depending on hardware, software, and overall system configuration.

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Intel® Hyper-Threading Technology (Intel® HT Technology) requires a system with a processor supporting Intel HT Technology and an Intel HT Technology-enabled chipset, BIOS, and operating system. Performance will vary depending on the specific hardware and software you use. For more information including details on which processors support Intel HT Technology, see www.intel.com/info/hyperthreading.