
PCM
Business Direct
THE RIGHT TECHNOLOGY, DELIVERED
DELL EMC
Enterprise Infrastructure

POWERFUL ENTERPRISE INFRASTRUCTURES FOR DIGITAL LEADERS



Enterprise IT holds the keys to companies' transformation and growth in a digital era. Across industries, businesses are modernizing their infrastructures to take advantage of the transformative opportunities that come with new architectures, operating models and ways of working.

Dell EMC delivers complete solutions for all enterprise infrastructure needs in today's fast-moving organizations. **Server, storage and networking solutions** from Dell EMC help you scale and adapt as you grow your business and thrive through industry and competitive challenges.

Through our **Enterprise Infrastructure** portfolio, we offer you the broadest ecosystem of solutions from our technology providers. These solutions enable you to optimize your enterprise infrastructure and scale as your needs change. Combining Dell EMC's core offerings with Extended Technologies and Dell EMC Upgrades, you can easily meet today's and tomorrow's technology requirements.

No matter what solutions you choose to enhance your enterprise infrastructure, they incorporate the best of what modern technology has to offer – and they all come to you through Dell EMC.



FUTURE-PROOFING YOUR INFRASTRUCTURE



Dell EMC Upgrades are OEM-grade parts to help companies achieve optimal performance and reliability from their enterprise infrastructures. They are rigorously tested and certified by Dell EMC engineers to ensure their compatibility, and are backed by Dell EMC's award-winning services and support.

The business case for Dell EMC Upgrades

Companies can take advantage of Dell EMC Upgrades to realize the best possible outcomes and ROI from their investment in Dell EMC infrastructures. Several typical situations have a high benefits potential for upgrades:

- Companies want to improve system performance and reliability while keeping costs under control.
- System performance levels decline.
- Systems run less efficiently.
- The technical environment changes after organizations install additional software or make other changes.

Easy purchase and extensive warranty policy

Dell EMC makes upgrading easy by providing customers with a dedicated sales representative and by enabling them to purchase Enterprise Upgrades directly from their Premier Pages.
Dell Memory is backed by a limited lifetime warranty, and Dell EMC Upgrades come with a one-year warranty or assume the existing system warranty, whichever is longer. That guarantees that Dell EMC will replace any failing upgrades without voiding a customer's hardware warranty. Unlike upgrades made through other channels, Dell EMC Upgrades are fully supported by Dell EMC. Note, however, that installing non–Dell EMC Upgrades in a system is not supported and cannot be serviced by Dell EMC.



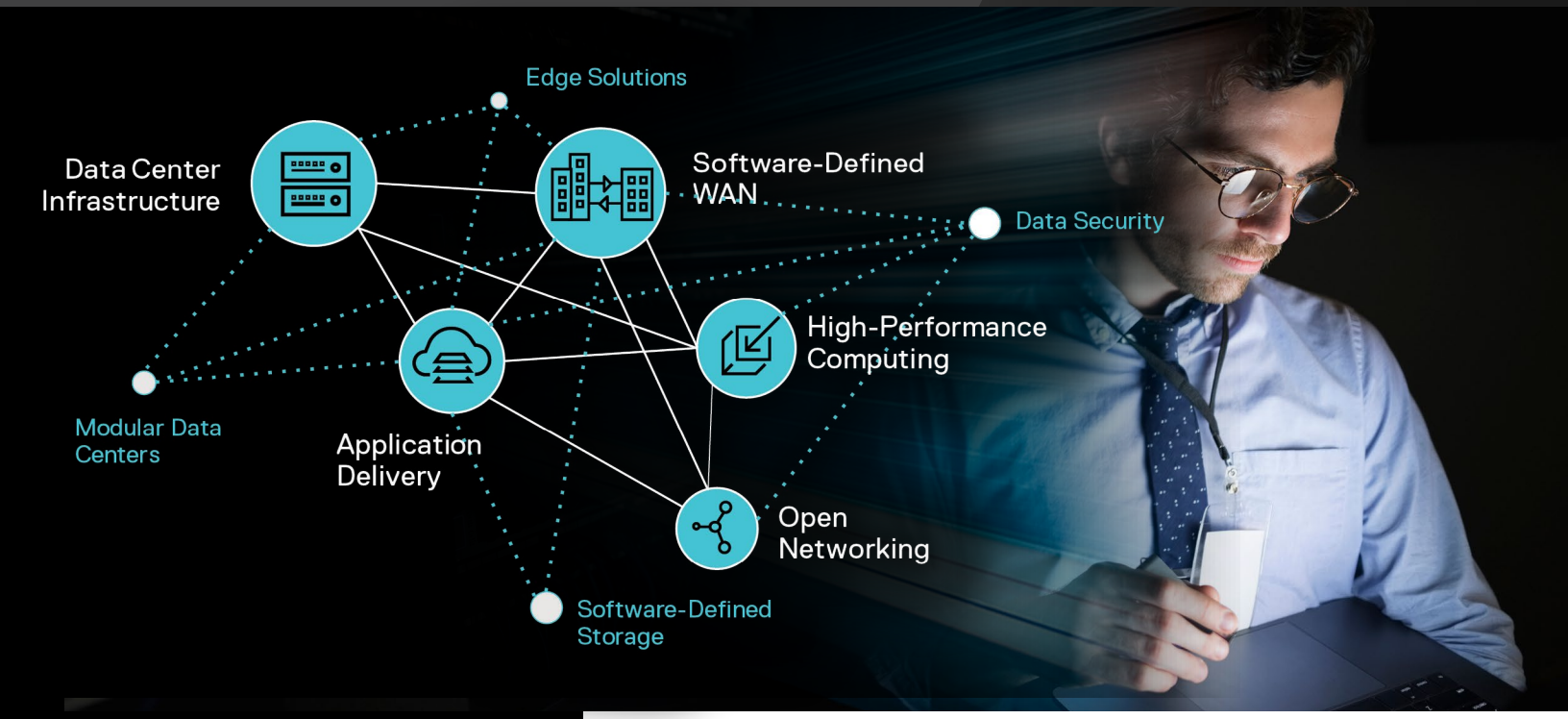
Key benefits

- Grow your infrastructure, following a solid, continuous roadmap without starts and stops
- Deploy upgrades to steadily improve system performance and reliability
- Eliminate any upgrade risks with assured full compatibility
- Build your enterprise foundation with top-quality, OEM-grade parts that surpass industry standards
- Acquire the right upgrade parts in an efficient, consultative sales process

To learn more about Dell EMC Upgrades, click here

DELL EMC

ALL YOU NEED TO BUILD AND GROW YOUR ENTERPRISE FOUNDATION



Dell EMC Extended Technologies are technology solutions that complement the Dell EMC portfolio and extend the value of your enterprise infrastructure. We offer the broadest ecosystem of technology providers, carefully vetted and chosen by Dell EMC.

Dell EMC Extended Technologies and Dell EMC Upgrades help you meet practically any conceivable technology need today and in the future.

Dell EMC Extended Technologies offers you:

- **Single source.** Dell EMC is your single point of contact for all your technology needs. You can take care of your changing requirements without juggling multiple vendor relationships.
- **Trusted.** The technology providers we select understand your needs, can address them in a way that builds upon your existing technologies, and follow established industry standards and best practices.
- **Open.** With Extended Technologies, you will not get locked into proprietary technologies. Our technology providers use open standards to give you the flexibility to make the best choices for your technology environment.

In the following pages, we introduce some of our technology providers that you can count on to help you move forward.

DELL Technologies

DELL EMC Pivotal RSA Secureworks virtustream vmware

PARTNERING WITH DELL EMC TO COMPLETE TRANSFORMATIVE ENTERPRISE INFRASTRUCTURES



Data Center Infrastructure

Power, Cooling and Server Operations & Management

- APC Legendary Reliability
- legrand
- EATON Powering Business Worldwide
- VERTIV

Deep Learning IOT

HPC, Machine Learning, Deep Learning, GPU

- Bull atos technologies
- DDN STORAGE
- Mellanox TECHNOLOGIES

Networking

Wireless, Optimization, Management

- AEROHIVE NETWORKS
- riverbed
- BROCADE
- Ruckus Simply Better Wireless.
- EMULEX
- silver peak
- ipinfusion

Cloud VDI

Cloud Migration, Application Delivery, Application Security

- AMULET HOTKEY
- KEMP TECHNOLOGIES
- f5
- NETSCOUT
- safe•connect
- Nokia Networks

Software Defined

WAN Network Storage

- big switch networks
- nexenta
- CUMULUS
- velocloud
- Pluribus NETWORKS
- VERSA NETWORKS

Others

RAM, SDD Flash Storage, Security

- SanDisk FUSION-IO
- intel
- gemalto security to be free
- SAMSUNG
- HGST



Back to index

MANAGEMENT AND INFRASTRUCTURE SOLUTIONS FOR THE EDGE AND DISTRIBUTED IT

Company: APC
URL: www.apc.com
Specialization: Power and cooling management

American Power Conversion (APC) offers a secure, reliable, scalable and flexible approach to edge-computing solutions with both infrastructure and remote monitoring solutions that reduce latency and security issues common with edge computing while increasing bandwidth and availability. APC is a flagship brand of Schneider Electric.

Customer challenges:
The rise of the Internet of Things (IoT) has made data connectivity vitally important to all industries. However, the limitations of cloud storage to handle this demand have led to challenges with latency, bandwidth and security. Because of this, edge computing and on-premises infrastructure have become critical needs. By supporting data storage and processing at the edge with a robust, secure and intelligent infrastructure, businesses can combine the flexibility of the cloud with reliable performance and security.

Solutions:
APC's edge-computing solutions enable efficient, intelligent, reliable and secure infrastructures that allow the quick deployment of distributed IT and edge-computing environments. These can easily be customized using the APC Local Edge Configurator Tool. APC also offers remote site management software that grants a complete view and full control of multiple data centers and IT equipment.

APC's edge-computing solutions include:

EcoStruxure IT software:
Visibility of insights and remote site management of an entire data center and its IT equipment through a single pane of glass accessed on any device anywhere in the world

Physical infrastructure:
Standardized, redundant, secure and reliable physical infrastructure that can be customized to fit the needs of any business

Prefabricated modular data centers:
Pre-engineered, assembled, integrated and tested cooling, power and IT modular infrastructure that can be deployed immediately onsite

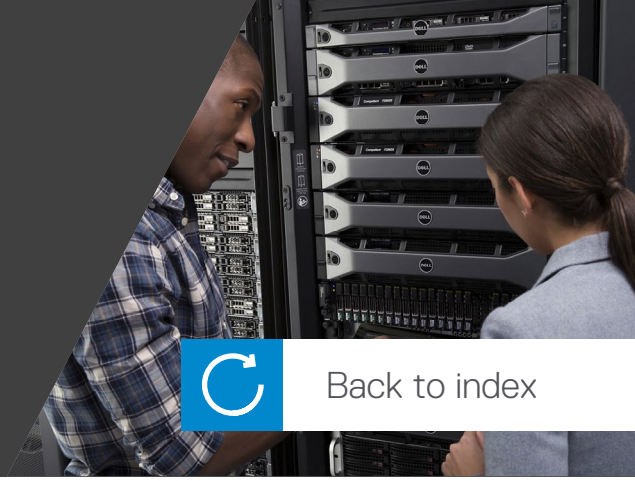
Key benefits

- Complete data-center view and control that provide reliable connectivity and peace of mind through monitoring of all IT equipment [with predictive failure analysis and optimization of existing capacities]
- Secure, scalable and safe environments that maximize uptime and operational effectiveness by preventing mechanical and human error
- Increased speed, reliability, efficiency and consistency of deployments across distributed IT with a variety of options for physical infrastructure
- Prefabricated modular data centers that reduce total costs of infrastructure technology ownership by up to 30 percent
- Accelerated deployments of prefabricated modules by 40 percent or faster compared to conventional build-outs

To learn more about the APC and Dell EMC alliance, click here

Powering Business Worldwide

KEEPING DYNAMIC, HIGH-DENSITY INFRASTRUCTURES RUNNING 24/7 WHILE REDUCING COSTS



Back to index

Company: Eaton
URL: powerquality.eaton.com/
Specialization: Power management and infrastructure protection

Eaton is a leading power management company that serves customers in 175 countries. Eaton's uniquely innovative BladeUPS Power System is optimized for protecting dynamic, high-density Dell EMC infrastructures, delivering far higher power density than competitive modular solutions while dissipating only one-third of the heat.

Customer challenges:
Companies need to deploy uninterruptible power supplies (UPS) to ensure optimal uptime of their servers and network infrastructure. Most conventional UPS solutions are not designed for evolving, high-density environments. They tend to radiate substantial heat and require expensive cooling. Batteries may also need frequent replacements when they reach the end of their short life span, and they can be hard to install, configure and manage.

Solution:
Eaton's BladeUPS solution keeps mission-critical data center operations running in thousands of data centers worldwide. It reduces energy costs with an industry-leading 98 percent efficiency and offers a battery life that is longer by half of what competitors offer, resulting in fewer battery replacements and improved uptime. Configurable and preassembled BladeUPS arrays integrate fully with VMware virtualized environments and allow centralized power management from a single dashboard.

Key features of BladeUPS include:

Scales with your growth:
The core element in BladeUPS power technology is a 6U rackmount module that provides 12 kW of backup power. As your requirements increase, you can easily expand to 60 kW in a single, 19-inch rack enclosure for additional capacity or redundancy, using Eaton's proprietary paralleling technology.

Saves space and increases flexibility:
BladeUPS frees up space for other IT equipment in racks and in the data center. It is smaller than any UPS in its class available today, but provides double the power density. You can deploy the modularly designed BladeUPS in a variety of infrastructure architectures to align backup power protection with changing requirements, even without involving electricians or service specialists.

Reduces cooling costs:
The high efficiency of BladeUPS reduces data center power requirements, and its low heat dissipation results in lower costs and fewer equipment requirements for air conditioning.

Key benefits

- Ensure uninterrupted uptime for your infrastructure and applications with redundant configurations, highly reliable paralleling technology and intelligent-bypass design
- Achieve drastic reductions in the cost of power and cooling
- Gain a scalable UPS with flexible, compact configurations that make optimal use of limited rack space
- Simplify UPS deployments with BladeUPS preassembled systems and integrated Eaton server room solutions
- Implement a sustainable, energy-efficient power system with a UPS that is ENERGY STAR–qualified

To learn more about the Eaton BladeUPS Power System for Dell EMC infrastructures, click here

EMPOWER THE VITAL APPLICATIONS OF THE DIGITAL WORLD



Back to index

Company: Vertiv
URL: www.vertivco.com/en-us/
Specialization: Critical infrastructure systems

Vertiv designs, builds and services mission-critical technologies that enable vital applications for data centers, communication networks, and commercial and industrial environments.

Customer challenges:
When companies embark on ambitious IT initiatives such as virtualization, consolidation and distributed or edge IT, their ancillary systems need to have the flexibility and capacity to meet the changing power and cooling needs of their enterprise infrastructures. In addition, IT departments aim to keep management complexity at a minimum even while infrastructures grow.

Solutions:
The Vertiv family of innovative SmartSolutions brings increased control, efficiency and availability to enterprise infrastructures. The Vertiv offerings deliver scalability by means of modular elements for racks, power, cooling and infrastructure management that can integrate in a centralized, manageable architecture. Vertiv's global solution capabilities, project management expertise and extensive services enable customers and their technologies wherever they are.

These Vertiv product families are of interest to companies building their infrastructures with Dell EMC:

SmartCabinet:
Integrated rack and power. Vertiv racks of any size come prebuilt with power distribution units (PDU), uninterruptible power supplies (UPS) and remote management. They can also include rack cooling and containment systems.

SmartRow:
Integrated racks with containment. Vertiv SmartRow features a space-neutral, self-contained design that can easily accommodate the unique requirements of various IT operational sites. These products are delivered in integrated packages to help companies accelerate deployment.

Containment:
Aisle and modular containment systems. Vertiv scalable, easily customized containment systems separate hot and cold air streams with a physical barrier that helps IT managers configure their systems for better cooling and improved efficiency.

Key benefits

- Improve the efficiency and reliability of enterprise infrastructures while streamlining their management
- Generate savings in capital and operational expenses with modular, pre-integrated, rigorously tested systems
- Simplify and accelerate one-time and repeated procurement and deployments
- Drive efficiencies across the power, thermal and management environments
- Increase the density of IT asset deployment for more efficient use of limited space
- Minimize the complexity of designing and deploying infrastructure systems in distributed sites

To contact the Dell EMC dedicated account team at Vertiv or learn more, click here

SOLUTIONS FOR AN APPLICATION WORLD



Back to index

Company: F5 Networks
URL: f5.com/
Specialization: Application delivery, availability, performance, security, visibility, control, and cloud agility and freedom

F5's expertise in intelligent traffic management serves as the foundation of its application availability and delivery solutions. With F5, you can remove roadblocks in your network to efficiently and securely deliver applications that are available to users as they need them. Using F5 application delivery services across cloud environments gives you the flexibility to scale based on shifting hardware and software requirements. F5 Networks is Dell EMC's largest enterprise networking partner.

Customer challenges:
When enterprises ready their infrastructures for the future, they often need to improve application performance and access; strengthen security and compliance; manage increasing network traffic more effectively; and accomplish more with limited IT budgets and resources. The cloud and cloud-enabled mobility enable greater user productivity, but also pose challenges when it comes to application access and performance, risk management and deployment.

Solutions:
Companies can greatly benefit from the F5 solution portfolio when they are architecting cloud deployments, virtual desktop initiatives, infrastructure projects, security enhancements and improvements in network services. Infrastructure services enhanced and facilitated by F5 Networks include global and local load balancing, application security and performance, network and web app firewalls, secure web gateways, DNS services, and malware detection, among others.

When it comes to enterprise infrastructures built on Dell EMC technology, F5 is a great fit and delivers important advantages in three key areas:

Application delivery:
In such endeavors as expanding infrastructures, virtualizing, deploying hyper-converged infrastructures and replacing aging load balancers, F5 solutions ensure uninterrupted access to applications with shorter application response times and minimal latency.

Security:
Forestalling security breaches and hardening security measures are high priorities for many F5 clients. F5 enables integrated identity federation for single sign-on, provides comprehensive security to mitigate the top 10 security risks identified by the Open Web Application Security Project (OWASP), and grants visibility of secure socket layer (SSL) traffic.

Cloud:
Cloud deployments, virtualization, software-defined networking, cloud automation, and orchestration and digitalization initiatives become more efficient and economical with F5.

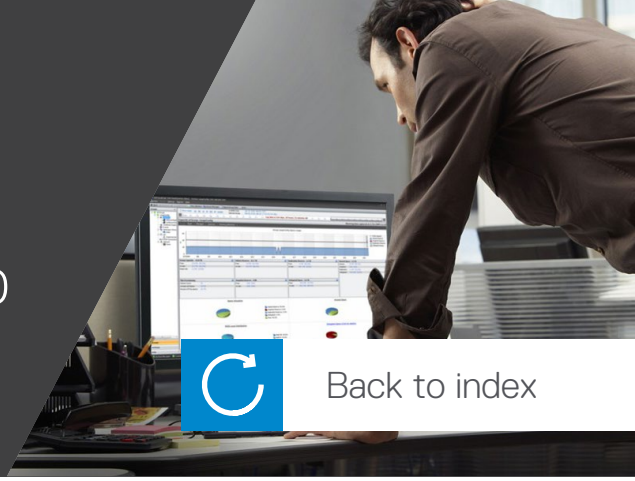
Key benefits

- Deploy cloud-based application services 25 percent faster
- Optimize application performance and access with improved traffic management
- Implement security and compliance measures without adding complexity to infrastructure management
- Build a future-proof infrastructure at a lower cost of ownership and with streamlined IT management
- Take advantage of the flexibility and economy of the cloud while ensuring high levels of security and performance

To contact the Dell EMC dedicated account team at F5 Networks, click here

riverbed®

UNPRECEDENTED APPLICATION AND NETWORK PERFORMANCE FROM EXISTING BANDWIDTH



Back to index

Company: Riverbed Technologies
URL: www.riverbed.com
Specialization: Network performance optimization

Riverbed Technologies enables companies to implement their strategic IT initiatives such as cloud computing, consolidation, virtualization or disaster recovery while keeping system performance high and maintaining the transparency of their networks. Riverbed pioneered wide-area network (WAN) optimization and is a leader in creating software-defined infrastructures and architectures for digital businesses.

Customer challenges:
As they become digital businesses, some companies aim to scale their enterprise infrastructures globally and gain full visibility of their applications and networks. At the same time, they need to keep costs under control and address performance issues before they become consequential. They often see the need to increase system uptimes, improve system performance at remote offices or in the cloud, enhance IT service levels, and consolidate data center resources and servers. Frequently, they also need to add networking bandwidth and increase the productivity of IT staff.

Solutions:
Riverbed is a known leader in the market for helping companies improve application performance over their WAN. By using Riverbed solutions, they can reduce the amount of WAN traffic, accelerate disaster recovery, achieve greater benefits from cloud computing, and successfully implement virtual desktop initiatives.

Riverbed solutions help businesses achieve transformative outcomes in three areas:

Bandwidth optimization:
Using Riverbed solutions, businesses can cut WAN traffic anywhere from 65 percent to 95 percent, and at the same time reduce network latency and boost performance. Instead of performing costly, multisite bandwidth upgrades, they can use their current network resources to their fullest potential and postpone upgrade investments.

Application acceleration:
Riverbed's acceleration capabilities enable companies to improve user productivity and take advantage of significantly faster response times. Following a Riverbed deployment, such technologies as Citrix, Amazon Web Services, Microsoft Azure and Microsoft Office 365 become optimized for the highest possible performance across company networks and cloud environments.

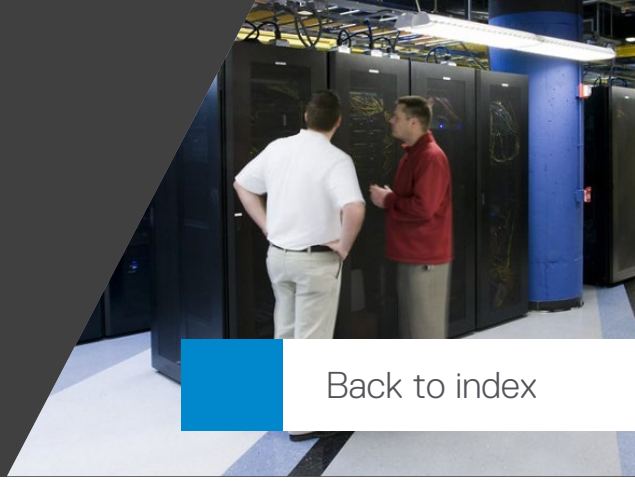
End-to-end visibility:
Riverbed solutions enable reporting and performance visualization for companies' networks and applications across their entire infrastructure including the cloud. These resources make it possible to diagnose and analyze any issues and proactively identify and remedy potential problems before they have an impact.

Key benefits

- Gain better performance and greater responsiveness from existing bandwidth
- Improve application performance for all users
- Provide better application access for remote and mobile workers
- Perform successful, efficient data center and server consolidations
- Simplify and centralize application and infrastructure management
- Increase IT team productivity and ensure that IT meets its service-level agreements

To contact the Dell EMC dedicated account team at Riverbed, click here

HYPER-SCALE BUSINESS VELOCITY FOR GLOBALLY CONNECTED COMPANIES



Back to index

Company: Big Switch Networks
URL: www.bigswitch.com/
Specialization: Data center networking

Big Switch Networking delivers next-generation data center networking with breakthrough improvements in the efficiency, transparence and agility of networking. A key principle of Big Switch is innovation velocity to meet the requirements of the most agile and forward-looking customers. In 2017, Big Switch made its debut in the Gartner Magic Quadrant for Data Center Networking as a visionary.

Customer challenges:
Companies often view the network as a barrier to data center transformation because traditional networking architectures hold IT organizations back. Complex, fragile, switch-by-switch management and proprietary, inflexible hardware make it challenging to manage networks so they can enable businesses to grow rapidly and innovate with impact.

Solutions:
Big Switch enables data center transformation and accelerates the momentum of businesses by delivering responsive, automated and programmable software-defined networking (SDN) fabric-based networking technologies. Big Switch solutions combine industry-standard switch hardware with intelligent SDN control software.

Solutions from Big Switch for Dell EMC infrastructures include:

Big Monitoring Fabric™:
A complete monitoring and security delivery solution for today's data centers. Big Monitoring Fabric combines the functions of a traditional network packet broker with the intelligence, agility and flexibility of an SDN fabric. The solution delivers network packets to both passive and active performance and security tools, and allows network managers to define delivery policies for each tool and manage security architectures through one centralized screen. It gives every tool full visibility of all traffic across every rack, location or workload.

Big Cloud Fabric™:
An innovative data center switching fabric for OpenStack clouds or VMware virtualization environments. Big Cloud Fabric enables operational velocity, network automation and visibility for cloud-native applications and software-defined data centers while keeping IT costs down.

Key benefits

- Enable the velocity today's business environment requires, overcoming traditional box-by-box network management
- Simplify complex network administration with easy-button networking in solutions that function as one logical switch
- Keep costs under control when IT budgets stay flat while operational and security challenges increase
- Streamline software upgrades and accelerate new application deployments by as much as 75%
- Lower the overall cost of network operations by 50% or more

To learn more about the Dell EMC and Big Switch Networking partnership, click here

POWERFUL GPU-OPTIMIZED BLADE SERVER SOLUTIONS



Back to index

Company: Amulet Hotkey
URL: amulethotkey.com/
Specialization: Remote physical or virtual workstation, virtual desktop and application delivery, high-performance computing, mission-critical environments.

Amulet Hotkey is a proven innovator in design, manufacturing and system integration of high-availability solutions for remote physical or virtual workstations as well as GPU-accelerated and virtual infrastructure. We combine the power of physical and virtual GPUs with the scalability and efficiency of Dell EMC PowerEdge blade servers to deliver unique blade solutions.

Customer challenges:
Companies need to establish the highest levels of security and reliability while balancing user demands for performance, responsiveness and flexibility. Whether delivering a mission-critical mandate or transforming infrastructure to meet challenging organization needs, they require solutions that provide exceptional scalability, performance and flexibility.

Solutions:
Companies can greatly benefit from centralizing desktop, workstation and compute infrastructure to create efficiencies while increasing productivity and security. Whether deploying new systems or upgrading existing ones, GPUs enable blades to handle new and tough workloads and extend ROI. Amulet Hotkey partners with leading manufacturers of data center, cloud and virtualization technologies to provide unique solutions and services tailored to company needs for a truly flexible and scalable computing architecture.

Combine Dell EMC PowerEdge M-Series or FX2 blade servers with GPU accelerators to support:

Scalable GPU-accelerated Windows 10 VDI:
Are you piloting Windows 10 on your VDI infrastructure? The increased graphics demands of Windows 10 applications drive the need for GPU accelerators to offload server CPUs and improve the user experience. GPU-accelerated blade servers simplify the transition to Windows 10 with performance, efficiency and market-leading density.

Anywhere access to physical or virtual workstations:
Blades provide the density needed to efficiently centralize any workstation. Physical blade workstations provide dedicated resources and professional GPUs. Virtual blade workstations share virtual GPUs across multiple users. Deliver uncompromised mobility with anywhere access to high-performance workstations for your most demanding users, while protecting valuable IP assets.

Scalable and efficient high-performance computing:
The density, efficiency and performance of GPU-accelerated blade servers help speed HPC applications and big data analytics as well as machine and deep learning frameworks. Blades are ideally suited for workloads that require both CPU and GPU compute performance.

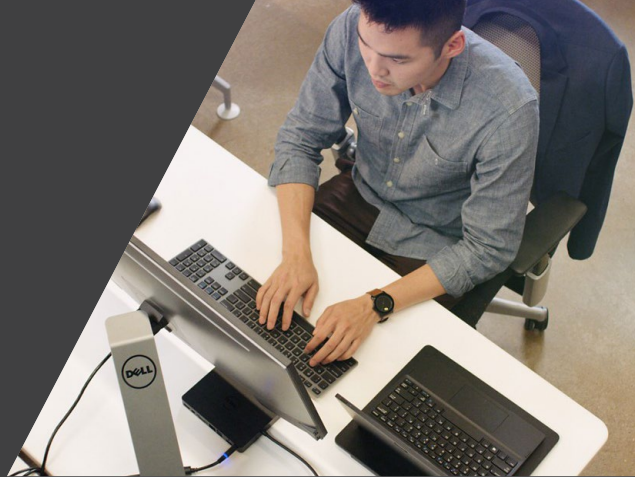
Key benefits

- Workload flexibility and agility using powerful CPU and GPU resources in a highly scalable platform with a small data-center footprint
- Increased productivity and extended ROI for M-Series and FX2 platforms to support new and tough workloads
- Professional GPU support including NVIDIA Quadro and AMD FirePro to create powerful, dedicated blade workstations
- GPU accelerators including NVIDIA Tesla with NVIDIA GRID vPC/vApps or Quadro vDWS software and AMD FirePro MxGPU with Radeon Pro software for virtual desktops, workstations or compute nodes
- Simplified management with intelligent automation and tools to maximize the benefits of a GPU-accelerated compute infrastructure

To contact our account team and technical experts at Amulet Hotkey, click here.

gemalto
security to be free

BRINGING TRUST TO AN INCREASINGLY CONNECTED WORLD



Company: Gemalto
URL: www.gemalto.com/
Specialization: Data encryption, crypto management, cloud security, identity and access management

With sensitive data residing everywhere, organizations becoming more mobile and the breach epidemic growing, the need for advanced identity and data protection solutions has become even more critical. Gemalto brings trust to an increasingly connected world.

Customer challenges:
Data is the new oil. Whether we're talking about your customers' personal data or your own IP, you must develop new ways to protect that data and prepare for impending data breaches. Over 2 billion data records were lost or stolen in 2017. Governments around the globe are creating new data protection laws that impact all of us: GDPR, PCI, HIPPA, CJIS, NYDFS, etc. Gemalto solutions make data unreadable so breaches become nonevents and may not trigger a legal requirement to publicize them. Gemalto Solutions help enterprises comply with and audit against data protection regulation.

Solutions:
With Gemalto Identity and Data Protection solutions for enterprise security, organizations can take a data-centric approach to their security posture, all while controlling access to the infrastructure and applications they rely upon. Not only can they create trust and authenticity in their transactions, but they can ensure that sensitive data is protected and controlled.

Gemalto's security solutions include:



Data Encryption:
Protect your enterprise's sensitive data wherever it resides or is transmitted with data-at-rest and data-in-motion encryption solutions.



Crypto Management:
Secure your cryptographic keys with enterprise key management, centralized crypto resource management, and the use of a hardware root of trust.



Identity and Access Management:
Enable secure access to online resources and protect digital interactions with market-leading strong authentication and digital signing solutions.

Key benefits

- Protect your company's brand by protecting your most sensitive data with Gemalto encryption solutions.
- As the use of encryption grows, key management is rapidly becoming a critical requirement for the enterprise—helping organizations establish centralized control over data and keys, and reduce cost, complexity and sprawl.
- Hardware Security Modules (HSMs) provide an additional high-performance, high-assurance trust anchor for encryption keys, and an easy-to-integrate application and transaction security solution for the enterprise.
- Move to the cloud securely while maintaining access controls to all corporate resources, regardless of the device being used.
- Effectively manage risk, maintain regulatory compliance, gain visibility into all access events and simplify the login experience.

For Dell EMC engagement support, click here. Please provide end customer name and location.

DELIVERS END-TO-END ETHERNET AND INFINIBAND INTELLIGENT INTERCONNECT SOLUTIONS

Back to index

Company: Mellanox Technologies
URL: www.mellanox.com

Mellanox provides end-to-end connectivity solutions with 10/25/40/50/100/200GB/s Ethernet and 40/56/100/200Gb/s InfiniBand connectivity, which support Virtualization, Overlay Networks, CPU offloads and RDMA over Converged Ethernet (RoCE).

Customer challenges:
The growth of artificial intelligence, machine learning, cloud and other modern datacenter workloads requires immense bandwidth and low latencies. Advanced data centers can utilize 25/40/50/100/200G Ethernet, InfiniBand or RoCE to consolidate I/O to a single wire and enable IT managers to deliver significantly higher application service levels, while reducing CapEx and OpEx related to I/O infrastructures.

Solutions:
With Mellanox Ethernet and InfiniBand interconnects proven scalability and efficiency, small and large clusters easily scale up to thousands of nodes. By providing low-latency, high-bandwidth, high message rate, transport offload to facilitate extremely low CPU overhead, Remote Direct Memory Access (RDMA), and advanced communications offloads, Mellanox interconnect solutions are the most deployed high-speed interconnect for large-scale simulations, replacing proprietary or low-performance solutions.

High-Performance Networks:
Mellanox end-to-end suite of 25G, 50G, 100G and 200G adapters, cables and switches are proven within modern data centers because an intelligent and high-performance network delivers total infrastructure efficiency.

Security:
Mellanox offers high-performance, end-to-end interconnect solutions embedding security into the DNA of the modern data center infrastructure. The solutions comprise smart network adapters, switches, network processors, cables and modules, and software

Ethernet Storage Fabric:
Mellanox Ethernet Storage Fabric (ESF) is run on purpose-built switches and adapters which are optimized to deliver the highest levels of performance, lowest latencies and zero packet loss.

Key benefits

Why Mellanox Ethernet Solutions
Mellanox continues its leadership in providing high-performance networking technologies by delivering superior utilization and scaling enabling data centers to do more with less.

- Industry-leading throughput and lowest latency performance
- Improved productivity and efficiency
- High availability and high performance for data center networking
- Accelerating todays modern Cloud, Storage and Hyperconvered environments

Why Mellanox InfiniBand Solutions
High Performance Computing needs high bandwidth, low latency and CPU offloads to get the highest server efficiency and application productivity. Mellanox delivers the highest bandwidth and lowest latency of any standard interconnect enabling CPU efficiencies of greater than 95 percent.

To learn more about Mellanox, click here.

UNMATCHED SD-WAN SOLUTIONS FOR THE CLOUD-FIRST ENTERPRISE



Back to index

Company: Silver Peak Systems
URL: www.silver-peak.com
Specialization: Software-defined Wide Area Network (SD-WAN), WAN Optimization

Silver Peak® offers a high-performance SD-WAN solution that provides secure and reliable virtual overlays to connect users to applications with the flexibility to use any combination of underlying transport without compromising application performance. This results in greater business agility and lower costs.

Customer challenges:
As enterprises continue to adopt cloud infrastructure and applications, exploding traffic levels and changing traffic patterns are driving them to re-evaluate their WANs. Current WAN architecture based on conventional routers was not designed for the cloud. To keep branch offices protected from threats, all web-bound traffic is backhauled to headquarters-based security services, negatively impacting cloud application performance. As a result, enterprises are faced with architectural complexity, inconsistent application performance and security challenges. The Silver Peak Unity EdgeConnect™ SD-WAN solution addresses these challenges, helping customers accelerate their digital transformation initiatives.

Solutions:
Silver Peak is a global leader in the SD-WAN market and has helped more than 800 enterprise customers lower costs, gain business agility and improve productivity. With Silver Peak, enterprises can simplify their WAN infrastructure, achieve predictable application performance over any WAN transport and enforce consistent security policies, whether applications reside in their data center, private hosted clouds or as public SaaS offerings.

Silver Peak Unity EdgeConnect SD-WAN solution provides key capabilities for a superior cloud-first user experience:

Automation:
With an EdgeConnect SD-WAN solution, enterprises can centrally automate and orchestrate how application traffic is handled across the network. From the Unity Orchestrator™ management console, application quality of service (QoS) and security policies may be centrally defined on an application-by-application basis according to business intent.

Performance:
As enterprises begin to actively use multiple forms of transport services including broadband in the WAN, EdgeConnect ensures predictable application performance. The ability to intelligently identify and classify applications on the first packet and dynamically steer traffic on an app-by-app basis directly to its destination reduces backhaul and improves application response time.

Security:
As enterprises embrace multi-cloud strategies to transform their businesses, safeguarding data, applications and users becomes a challenge. EdgeConnect security features encrypt and secure all data communications across the WAN, and a built-in stateful firewall protects branches from threats. From Orchestrator, enterprise IT can centrally define granular security policies and create secure end-to-end zones – or segments – spanning the LAN, WAN and data center.

Key benefits

- Improve business productivity and user experience with predictable application performance and consistent security policies
- Simplify branch WAN architecture by integrating routing, security, WAN optimization and SD-WAN in a single solution
- Automate IT tasks to dramatically reduce the amount of time to bring new sites and applications online and the time required to manage the WAN
- Improve operational efficiency by automating network policies based on business intent, giving IT time back to focus on other critical business needs
- Accelerate time-to-resolution with real-time network and application visibility
- Lower WAN transport costs by augmenting MPLS with broadband services

To contact your account team at Silver Peak, please click here.



DELL EMC

Ready to build, adapt and enhance your enterprise infrastructure?

Contact Dell EMC at Enterprise_Infrastructure_Mktg_Team@Dell.com

Copyright © 2018 Dell Inc. or its subsidiaries. All Rights Reserved. Dell, EMC and other trademarks are trademarks of Dell Inc. or its subsidiaries. Other trademarks may be trademarks of their respective owners. This brochure is for informational purposes only. Dell and EMC make no warranties — express or implied — in this document.