Dell Converged Blade Data Center

A flexible solution that delivers compute, storage and networking resources as well as integrated infrastructure management in a single chassis that is extremely dense, easy-to-manage and powerful to use.
Building the infrastructure to support your environment can be a significant investment in time and effort. Increasingly, IT organizations are seeking pre-designed solutions as the basis for new infrastructure deployments rather than designing it themselves. By getting these pre-designed solutions from Dell, IT organizations can leverage enterprise-class architectures developed from Dell’s accumulated experiences from the thousands of deployments it does annually.

**Focus on supporting your business, not designing and managing the infrastructure**

The Converged Blade Data Center solution from Dell is a pre-engineered solution that includes Dell’s latest server, storage and networking platforms and integrated infrastructure management into a single chassis. These world-class technologies help deliver a solution that uses the industry’s only quarter-height blade server — the PowerEdge™ M420 — the only 40GbE capable stacking IO module switch and enterprise-class SAN storage. It is accompanied by best practices to deploy and manage the solution — a simplified deployment process is enabled by modular components and requires only three cables (up to 40GbE) to run the entire solution. For customers seeking a flexible architecture that can be deployed rapidly to support their business and grow with their needs, this solution is the answer.

**Simplify your infrastructure without compromise**

This complete data center solution helps simplify your infrastructure without having to compromise on enterprise-class features. All platforms in the chassis share a common out-of-band interface to help make the process of configuration and management easier. Also, with the architecture being totally agent-free, management is made even simpler with no software to install, or operating system dependencies. In addition, you can manage the infrastructure with your console of choice. Dell has a portfolio of management tools and integrations into some major management platforms.

**Modular and horizontal scalability**

- **Growing capacity within the chassis:** Modular components make scaling up the chassis a simple and fast process. There is no need to run new cables since all data is moving through 40GbE cables offering you high performance east-west traffic within the chassis, and high speed uplinks to the core. Also, up to nine chassis can be managed through one out-of-band IP address, simplifying the management process.

- **Growing horizontally within the data center:** Multiple Converged Blade Data Center solutions can be implemented side-by-side to scale the overall infrastructure horizontally with self-contained chassis. This could be used to support a new application initiative, growth of mid-tier virtualization resources or even for remote sites or co-location facilities. Overall network port usage can be dramatically reduced as each chassis only requires two 10/40GbE uplink cables.

**Put your Converged Blade Data Center to use**

This flexible and versatile solution can bring value to organizations across different sizes and use cases. Some of the most common ways that the solution could be used are:

- Data center in a chassis for a mid-sized company
- Mid-tier virtualization in a large data center
- Infrastructure for a new application initiative
- Density for space constrained customers: mobile data center, co-location model, remote site and bare metal server consolidation

With the Dell Converged Blade Data Center solution, you can help run your business while achieving extreme density, efficient power and cooling, simplified management and reduced infrastructure complexity.

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<th>Features</th>
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| **Reduce data center complexity** |  - Standardized blade modules and minimized cabling makes deployment quick and easy  
- Simple configuration, maintenance and scaling with flexible blade modules  
- Converged, high-performance network that will scale to your future needs |  - Pre-engineered solution that doesn’t require design time in-house  
- Modular components and reduced cabling are easier to support and troubleshoot |
| **Simplicity without compromise** |  - Use your preferred virtual machine console from VMware or Microsoft to manage the infrastructure by leveraging Dell management integrations  
- Update and patch using a common out-of-band interface to agent-free hardware management  
- Enterprise-class features that are ready-to-use |  - Administrators don’t have to learn yet another console  
- No compromise features deliver DCB for iSCSI, 40GbE networking, enterprise class storage and servers in a compact form factor |
| **Improve data center efficiency** |  - Improve density with a complete data center infrastructure stack contained in a single 10U chassis  
- Help reduce cost of power and cooling through shared power supplies and fans for the entire data center infrastructure |  - Use less space in the data center, leaving room for other applications  
- Efficiency through consolidation |

Learn more at Marketing.Dell.com/Convergence

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