



## Cisco SFSM7000E InfiniBand Switch for Dell M1000E Blade Systems Quick Reference

Feature	Description
<b>Solution Overview</b>	The Cisco® SFSM7000E InfiniBand Switch provides a modular InfiniBand double-data-rate (DDR) blade solution for clusters requiring high performance in a dense form factor. As the exclusive InfiniBand solution for the Dell next-generation blade platform, the Cisco SFSM7000E switch offers optimal density, high performance, and power efficiency to clusters of any size.
<b>Customer Value Proposition and Primary Messages</b>	<p><b>Business decision makers:</b></p> <ul style="list-style-type: none"> <li>• <i>Reduced power requirements:</i> Reduce power consumption to minimize energy cost and promote “green” data centers.</li> <li>• <i>Maximized return on investment (ROI):</i> Maximize ROI with a cost-efficient InfiniBand blade switch.</li> <li>• <i>Single vendor for networking:</i> Access Cisco as the single vendor for all high-performance computing (HPC), data networking, and storage networking needs (InfiniBand, Ethernet, and storage switching).</li> <li>• <i>Service and support:</i> Obtain Dell and Cisco support for complete networking solutions.</li> </ul> <p><b>Technical decision makers:</b></p> <ul style="list-style-type: none"> <li>• <i>Time to results:</i> Minimize run time for the most demanding HPC applications.</li> <li>• <i>Low latency:</i> Achieve cut-through latency of 140 nanoseconds (ns) port to port.</li> <li>• <i>High throughput:</i> Deliver 20-Gbps throughput per port to each blade server, with 320-Gbps uplink bisectional bandwidth.</li> <li>• <i>Scalable fabric topologies:</i> Build multiple, independent InfiniBand fabrics with the same server nodes by installing up to four Cisco switches in a Dell blade chassis.</li> </ul>
<b>Main Solution Components</b>	<ul style="list-style-type: none"> <li>• <b>Cisco SFSM7000E InfiniBand Switch for Dell M1000e Blade Chassis:</b> <del>100%</del> This switch offers optimal density, high performance, and power efficiency to clusters of any size. The switch interconnects all 16 blade server modules in a chassis through InfiniBand DDR ports.</li> <li>• <b>Cisco SFS 7000 Series InfiniBand Server Switches:</b> These switches are completely nonblocking and offer low latency and high performance for HPC cluster applications. Products range from the Cisco SFS 7000D InfiniBand Server Switch to the 288-port modular Cisco SFS 7024D InfiniBand Server Switch.</li> <li>• <b>Cisco SFS High Performance InfiniBand Subnet Manager 1.2:</b> This product is the industry’s first subnet manager to commercially support scalable, multivendor InfiniBand networks. It is a standalone software package that supports heterogeneous, multivendor InfiniBand networks.</li> <li>• <b>Cisco Fabric Analysis and Correlation Toolkit:</b> This toolkit improves cluster availability and productivity using advanced diagnostic and analysis tools.</li> </ul>
<b>Cisco SFSM7000E InfiniBand Switch and Dell M1000e Blade Chassis</b>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Cisco SFSM7000E InfiniBand Switch for Dell M1000e Blade Chassis</p> </div> <div style="text-align: center;">  <p>Dell M1000e Blade Chassis</p> </div> </div>
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