















## Modules for BlackDiamond 8800 Series Switches

With a wide range of available I/O and management modules, the versatile BlackDiamond® 8800 series modular switches provide unparalleled investment protection over the product lifetime. For example, the BlackDiamond 8500-series modules can support wiring closet/edge applications for small to medium enterprises; as the network grows, BlackDiamond 8800 c-series modules can be implemented in the same chassis to support medium-sized enterprise core deployment or aggregation. And the BlackDiamond 8900-series modules, with their high performance and high density, can support large enterprises or interconnection for data centers and High Performance Cluster Computing (HPCC) applications.




The BlackDiamond 8800 series of switches provides unparalleled investment protection. Past and current generations of modules are compatible with any BlackDiamond 8800 series chassis. The BlackDiamond 8800-series switches also feature low power consumption (as much as two-thirds less than that of certain competing switches), protecting operating budgets as well.

Choose from large enterprise and data center modules (8900-series); medium to large enterprise modules (8800 c-series); or wiring closet/small enterprise modules (8500-series).

8500 series (for small deployments)	8800 c-series (for medium deployments)	8900 series (for large deployments)
<a href="#">8500-MSM24<sup>+</sup></a> 	<a href="#">8800 MSM48-c<sup>+</sup></a> 	<a href="#">8900-MSM128<sup>+</sup></a> 
	<a href="#">Data Center: 8800 10G8X-c</a> 	<a href="#">Data Center: 8900-10G24X-c</a> 
	<a href="#">Core: 8800-10G4X-c</a> 	<a href="#">Data Center: 8900-G96T-c</a> 
	<a href="#">Core: 8800 G48X-c</a> 	
<a href="#">Access: 8500-G24X-e</a> 	<a href="#">Core: 8800 G24X-c</a> 	
<a href="#">Access: 8500-G48T-e (POE FRU)</a> 	<a href="#">Access: 8800 G48T-c (POE FRU)</a> 	
<b>Common BlackDiamond 8000 infrastructure</b> (Chassis, Power supply and other shared components) *All MSMs support optional GE or 10GE port cards		

### Large Enterprise Aggregation/Core and Data Center (BlackDiamond 8900-series modules)








The BlackDiamond 8900-series modules, with their high performance and high density, can support large enterprise core or aggregation applications, or high-throughput data center and HPCC applications. The 8900-series I/O modules can support up to 96 10/100/1000BASE-T ports or up to 24 10GBASE-X ports per module, enabling market-leading scalability for 10 Gigabit Ethernet with up to 582 10 Gigabit Ethernet ports in a single rack, or 2,352 1 GbE ports per rack.

	<b>BlackDiamond 8900 MSM128 Management Switch Module</b> <ul style="list-style-type: none"> <li>• 3.8Tbps switching capacity at FCS</li> <li>• 128 Gbps/slot (256 Gbps/slot bi-directional) on BlackDiamond 8806 chassis</li> <li>• 80 Gbps/slot (160 Gbps/slot bidirectional) on BlackDiamond 8810 chassis</li> <li>• Optional 8xGE or 1x10G FRU</li> </ul>
	<b>BlackDiamond 8900-G96T-c 96-port 10/100/1000BASE-T MRJ-21</b> <ul style="list-style-type: none"> <li>• All ports line rate on BlackDiamond 8806 chassis</li> <li>• Almost line rate (1.2:1) on BlackDiamond 8810 chassis</li> <li>• 'Network in a box' — 784 GbE ports per chassis</li> <li>• Dynamic buffer allocation to absorb traffic bursts</li> <li>• Reduces cable deployment expenses by up to 85%</li> <li>• Uses standard miniRJ21 cables and connectors</li> </ul>
	<b>BlackDiamond 8900-10G24X-c 24-port 10GBASE-X SFP+</b> <ul style="list-style-type: none"> <li>• Line rate 24x10G ports when locally switched within ports 1-12 and 13-24</li> <li>• Oversubscription model on backplane: 2:1 oversubscribed on 8806</li> </ul>

	<p>3:1 oversubscribed on 8810                  Unique flexibility- use 24x10G with oversubscription, or 12/8x10G at line rate</p> <ul style="list-style-type: none"> <li>• 582 ports of 10G in a 7-foot rack</li> <li>• Low latency &lt; 2 μsec</li> <li>• Dynamic buffer allocation to absorb traffic bursts</li> </ul>
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**Small to Medium Enterprise Aggregation/Core and Large Enterprise Edge (BlackDiamond 8800 c-series)**

The BlackDiamond 8800 c-series modules deliver scalability and density for Gigabit and 10 Gigabit ports to support medium to large enterprise edge, aggregation and core applications. The 8800 c-series modules offer a wide range of options to fit diverse applications and environments.

	<p><b>BlackDiamond 8800-MSM48c Management Switch Module</b></p> <ul style="list-style-type: none"> <li>• 48 Gbps/slot (96 Gbps/slot bidirectional)</li> <li>• Active-active load sharing</li> <li>• Optional 8xGE or 1x10G FRU</li> </ul>
	<p><b>BlackDiamond 8800-10G8Xc 8-port 10GBASE-XFP</b></p> <ul style="list-style-type: none"> <li>• Line rate 8 ports of 10 Gigabit</li> <li>• 2:1 oversubscription in the backplane</li> <li>• 1:1 for local switching</li> <li>• Local switching at no extra cost</li> </ul>
	<p><b>BlackDiamond 8800-10G4Xc 4-port 10GBASE-XFP</b></p> <ul style="list-style-type: none"> <li>• Line rate 4 ports of 10 Gigabit</li> <li>• Local switching at no extra cost</li> </ul>
	<p><b>BlackDiamond 8800-G48Xc 48-port 1000BASE-X SFP</b></p> <ul style="list-style-type: none"> <li>• Line rate 48 ports of fiber connection</li> <li>• Local switching at no extra cost</li> </ul>
	<p><b>BlackDiamond 8800-G24Xc 24-port 1000BASE-X SFP</b></p> <ul style="list-style-type: none"> <li>• Line rate 24 ports of fiber connection</li> <li>• Local switching at no extra cost</li> </ul>
	<p><b>BlackDiamond 8800-G48Tc 48-port 10/100/1000BASE-T RJ-45, optional PoE card</b></p> <ul style="list-style-type: none"> <li>• Line rate 48 ports of copper connection</li> <li>• Optional PoE card</li> <li>• Local switching at no extra cost</li> </ul>
	<p><b>BlackDiamond 8800-G48Te2 48-port 10/100/1000BASE-T RJ-45, edge, optional PoE card</b></p> <ul style="list-style-type: none"> <li>• Line rate 48 ports of copper connection</li> <li>• Optional PoE card</li> <li>• Table sizes tailored for edge deployment</li> <li>• Local switching at no extra cost</li> </ul>

**Wiring Closet/Edge for Small to Medium Enterprises (BlackDiamond 8500-series modules)**

The economical BlackDiamond 8500-series modules for the BlackDiamond 8800-series switches are ideal for the wiring closet/edge for small to medium enterprises. Featuring 24 to 48 Gbps port performance, the 8500-series modules are supported by the 8500-series MSM (Management Switch Module) and 8800-series MSM as well as the 8900-series MSM. A maximum of 440 gigabit Ethernet ports and two 10 GbE ports per chassis are supported.

	<p><b>BlackDiamond 8500-MSM24 Management Switch Module</b></p> <ul style="list-style-type: none"> <li>• 24 Gbps/slot (48 Gbps/slot bi-directional)</li> <li>• Optional 8xGE or 1x10G FRU</li> <li>• 512MB memory</li> <li>• Limited lifetime warranty</li> <li>• Entry-level price. with full upgrade option - to upgrade switch, just upgrade MSM</li> <li>• Compatible with existing chassis infrastructure (8806, 8810, PSUs, fan trays, etc)</li> </ul>
	<p><b>BlackDiamond 8500-G24X-e 24-port 1000BASE-X SFP card</b></p> <ul style="list-style-type: none"> <li>• 24 GE-fiber ports in each card</li> <li>• Line rate on backplane with 8500-MSM24</li> <li>• For MSM redundancy, use 8800-MSM48c</li> <li>• Local switching at no extra cost</li> <li>• Use one or more GE-fiber modules to backhaul edge switch to core switch</li> <li>• Entry level GE-fiber module. Supports full upgrade option by simply replacing MSM</li> </ul>
	<p><b>BlackDiamond 8500-G48T-e</b></p>

**48-port 10/100/1000BASE-T  
RJ-45 card**

- 48 GE-copper ports in each card
- 2:1 oversubscription on backplane with 8500-MSM24
- For line rate traffic and MSM redundancy, use 8800 MSM48c
- Local switching at no extra cost
- 'Network in a box' — Connect 440 GE desktops with single chassis
- Entry level GE-copper module. Supports full upgrade option by simply replacing MSM
- Optional PoE daughter card

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