Brocade Adapters

	FABRIC ADAPTER		HBA		CNA	
Model	Brocade 1860-1 Fabric Adapter	Brocade 1860-2 Fabric Adapter	Brocade 815 Single-Port HBA	Brocade 825 Dual-Port HBA	Brocade 1020 Dual-Port CNA	Brocade BR1741M-k CNA for Dell PowerEdge M-Series Blade Servers
WHERE AVAILABLE	Dell S&P		DellStar			
PART NUMBERS	**Brocade 1860** Fabric Adapter without optic, Single Port (A5251979) **Brocade 1860** Fabric Adapter with 16 Gbps Fibre Channel SWL optic, Single Port (A5251977) **Brocade 1860** Fabric Adapter with 10Gb Ethernet SR optic, Single Port (A5251975)	**Brocade 1860** Fabric Adapter without optics, Dual Port (A5251978) **Brocade 1860** Fabric Adapter with 16 Gbps Fibre Channel SWL optics, Dual Port (A5251976) **Brocade 1860** Fabric Adapter with 10Gb Ethernet SR optics, Dual Port. (A5251974)	**Brocade 815** Single-Port HBA with 1 8 Gbps Fibre Channel SFP+, Non-Tied (331-0237)	**Brocade 825** Dual-Port HBA with 2 8 Gbps Fibre Channel SFP+, Non-Tied (331-0238)	**Brocade 1020** Dual-Port CNA without optics, Non-Tied (342-7605)	**Brocade BR1741M-k** CNA, Non-Tied (331-1345)
PRODUCT HIGHLIGHTS	• New class of adapter that meets all Fibre Channel and Ethernet connectivity needs in cloud-enabled data centers • Simplifies and optimizes server I/O in highly virtualized environments • Supports native 16 Gbps Fibre Channel and 10 GbE DCB connectivity for TCP/IP, iSCSI, and FCoE with Brocade AnyIO technology		**Easier to Use** – Hot-swappable SFPs, more up time **Simpler Management** – Host and fabric, unified ecosystem **Highest Performance** – 2x IOPS, applications run faster **Better Server Virtualization** – SAO, more data control		**Easier to Use** – Hot-swappable SFPs, more up time **Simpler Management** – Host and fabric, unified ecosystem **Highest Performance** – 2x IOPS, applications run faster **Better Server Virtualization** – Hypervisor offload	
PORTS	1	2	1	2	2	–
PORT SPEED	2, 4, 8, 10, 16 Gbps FC, 10 GbE		2, 4, 8 Gbps FC		10 GbE	
PROTOCOL	FC, DCB TCP/IP, FCoE, iSCSI		FC		DCB TCP/IP, FCoE, iSCSI	
BUS TYPE	PCIe 2.0 x 8		PCIe 2.0 x 8		PCIe 2.0 x 8	

Contacts

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THE DATA CENTER IS HERE

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Storage Area Networks (SAN) Switches and Data Center Backbones

	DCX BACKBONES			16 GBPS SWITCHES		8 GBPS FAMILY OF SWITCHES		EMBEDDED SWITCHES
Model	Brocade DCX 8510-8 Backbone	Brocade DCX 8510-4 Backbone	Dell PowerConnect B-DCX 4S Backbone	Brocade 6510 Switch	Brocade 6505 Switch	Brocade 300 Switch	Brocade 5100 and 5300 Switches	Brocade M5424 Switch for M1000e
WHERE AVAILABLE	Dell S&P	DellStar	DellStar	DellStar	DellStar	DellStar	DellStar	DellStar
DELL MODELS	• DCX 8510-8 Chassis	• DCX 8510-4 Chassis with Enterprise Bundle • DCX 8510-4 Chassis	• DCX-4S Chassis w/EGM + Enterprise Bundle (incl. power supplies, fan kits) • DCX-4S Chassis w/EGM (incl. power supplies, fan kits)	• 24 ports, 16 Gbps SFPs, Non-port side exhaust • 24 ports, 16 Gbps SFPs, Port side exhaust • 48 ports, 16 Gbps SFPs, Non-port side exhaust, includes Enterprise Software Bundle • 48 ports, 16 Gbps SFPs, Port side exhaust, includes Enterprise Software Bundle • 24 ports, 8 Gbps SFPs, Non-port side exhaust • 24 ports 8 Gbps SFPs, Port side exhaust	• 12 ports, 16 Gbps SFPs • 24 ports, 16 Gbps SFPs • 12 ports, 8 Gbps SFPs	• 4 Gbps 8-port base, 0 E_Port • 0 E_Port upgrade to FF • 8 Gbps 8-port base • 8 Gbps 8-port upgrade • ISL Trunking Enterprise Bundle	**Brocade 5100** • 8 Gbps 24-port base • 8 Gbps 8-port upgrade • ISL Trunking Enterprise Bundle **Brocade 5300** • 8 Gbps 48-port base • 8 Gbps 16-port upgrade • ISL Trunking Enterprise Bundle	• 12 ports, 8 Gbps, factory Installed • 24 ports, non-ENT, factory Installed • 24 ports, ENT, factory installed
PRODUCT HIGHLIGHTS	• Simplifies scale-out network design to reduce network complexity, management, and costs • Optimizes business continuity and disaster recovery solutions with integrated metro and global connectivity • Simplifies deployment and reduces costs by centralizing end-to-end SAN management with enhanced diagnostics, monitoring, and management • Provides industry-leading performance to support traffic growth and increased requirements for virtualized environments • Protects investments in current SAN fabrics and minimizes operational costs	• Simplifies scale-out network design to reduce network complexity, management, and costs • Optimizes business continuity and disaster recovery solutions with integrated metro and global connectivity • Simplifies deployment and reduces costs by centralizing end-to-end SAN management with enhanced diagnostics, monitoring, and management • Provides industry-leading performance to support traffic growth and increased requirements for virtualized environments • Protects investments in current SAN fabrics and minimizes operational costs	• Delivers uncongested 8 Gbps throughput and 3 times the performance of competitive offerings. • Scales efficiently and non-disruptively to meet storage growth and application demands without increasing complexity • Delivers more than 6 times the energy efficiency of competitive offerings and has the lowest power consumption, cooling needs, and carbon footprint among all modular switch products it in the industry • Extends return on investment for current Brocade switch deployments and supports emerging protocols such as Data Center Bridging (DCB) and Fibre Channel over Ethernet (FCoE)	• Exceptional price/performance value to meet growing workloads in enterprise SAN environments, including private cloud storage • Delivers industry-leading technology in a flexible, simple, and easy-to-use SAN solution • Purpose-built to support highly virtualized, private cloud storage environments	• Provides exceptional price/performance value, combining flexibility, simplicity, and enterprise-class functionality in a 24-port, 1U entry-level switch • Enables fast, easy, and cost-effective scaling from 12 to 24 ports using Ports on Demand (PoD) capabilities • Maximizes resiliency with non-disruptive software upgrades and an optional redundant power supply ents	• Provides an affordable, flexible foundation for entry-level SANs, and an edge switch for core-to-edge SAN environments • Delivers up to 24 ports of 8 Gbps performance in an energy-efficient, optimized 1U form factor to support the most demanding server and virtual server deployments • Simplifies configuration and management with easy-to-use tools	• Deliver full 8 Gbps 1:1 performance for up to 40 (Brocade 5100) or 80 (Brocade 5300) ports in an energy-efficient, optimized form factor • Offer best-in-class port density and scalability along with redundant, hotpluggable components and non-disruptive software upgrades • Feature Ports on Demand capabilities for fast, easy, and cost-effective scalability	• Twenty-four 8 Gbps Fibre Channel ports (16 internal server and 8 external fabric ports) • Zero foot print, hot pluggable design with no additional fans or power supplies • Complete-redundancy with up to four switches per chassis • Dynamic ports on demand and "Pay-as-you- grow" port upgrades for 12 port configurations • Heterogeneous SAN fabric interoperability • Fabric switch or Access Gateway (NPIV) connectivity • Auto-sensing and speed matching connections to 8/4/2 Gbps to FC devices
CUSTOMER PROFILE	• Mid/Large Data Centers Containing Directors with 8 Gbps or Less • Consolidation/Reduce Energy Costs • Storage Upgrade • Hyper Growth Virtualization of Tier 2/3 Workloads • Metro Connectivity Over DWDM for FC SAN Extension • New and Emerging Workloads Requiring SAN Storage	• Mid/Large Data Centers Containing Directors with 8 Gbps or Less Bandwidth or Limited Port Density • Consolidation/Reduce Energy Costs • Storage Upgrade • Hyper Growth Virtualization of Tier 2/3 Workloads • Metro Connectivity over DWDM for FC SAN Extension • New and Emerging Workloads Requiring SAN Storage	• Mid/large data centers • Increasing data storage and access requirements • Increasing infrastructure and operational costs • Escalating requirements for reliability and availability • Increasing pressure to build a more flexible infrastructure to better meet the long-term business requirements	• Mid/large data centers • Enterprises looking to consolidate current switch infrastructure and/or reduce energy costs • Storage upgrade • Hyper growth virtualization of tier 2/3 Workloads • Metro connectivity over DWDM for FC SAN extension • New and emerging workloads requiring SAN Storage	• Growing workloads in enterprise SAN environments, including private cloud storage • Need for easy-to-use SAN solutions • Needs to support highly virtualized, private cloud storage environments	• Small and medium business SAN environments • Cost sensitive • DAS to SAN migration	**Brocade 5100** • Midrange enterprise SAN • Standalone networks Edge of enterprise core-to-edge fabrics • Rapidly growing storage requirements in mission-critical environments **Brocade 5300** • Enterprise SAN • Needs to consolidate connectivity in rapidly growing mission-critical environments • Medium- and large-scale server and storage consolidation	Customers deploying M1000e servers in the following environments: • Fibre Channel storage network with direct connection between M1000e and FC-based storage • Network connectivity for the M1000e directly into existing FC SAN
TARGET ENVIRONMENT	• Large Enterprise-Class Data Centers (Global 1000 Companies) • Enterprise Fabric Core • Mainframe Environments	• Large and Mid-Sized Data Centers • Midsize Enterprise Fabric Core • Large Enterprise Edge or Application Engine • Mainframe Environments	• Large and mid-sized data centers • Midsize enterprise Fabric Core • Large enterprise edge or Application Engine • Mainframe environments	• Mid-sized and small data centers • Core or edge switch deployments	• Entry-Level SAN • Edge Switch Deployment	• SMB environments • Workgroup deployments • Edge deployments in enterprise SANs	**Brocade 5100** • Department • Workgroup • High performance edge **Brocade 5300** • Enterprise Edge • Fabric Core Switch • Mainframe Environments	• Fibre Channel storage environment • Existing Fibre Channel SAN environment
PORTS	Up to 384 16 Gbps ports for Device Connectivity, the Inter-Chassis Link Option Provides up to 32 QSFP Ports and 2.1 Tbps of Bandwidth Between Up to 6 Chassis	Up to 192 16 Gbps Ports for Device Connectivity, the Inter-Chassis Link Option Provides up to 16 QSFP Ports and 1 Tbps of Bandwidth Between Up to 6 Chassis	Up to 192 ports per chassis, 384 ports in two chassis with ICL kit	24,36,48 ports 12-port upgrade	12, 24 ports 12-port upgrade	8, 16, 24 ports 8-port upgrade	**Brocade 5100** 24, 32, 40 8-port upgrade **Brocade 5300** 48, 64, 80 16-port upgrade	12, 24 ports 12-port upgrade
PORTS SPEED	2, 4, 8, 10, 16 Gbps FC	2, 4, 8, 10, 16 Gbps FC	2, 4, 8 Gbps FC	2, 4, 8, 10, 16 Gbps FC	2, 4, 8, 10, 16 Gbps FC	2, 4, 8 Gbps FC	2, 4, 8 Gbps FC	2, 4, 8 Gbps FC
EXPANDABILITY	FC16-32 32-Port 16 Gbps Blade FC16-48 48-Port 16 Gbps Blade FC8-64 64-Port 8 Gbps Blade FS8-18 Encryption Blade FX8-24 Extension Blade	FC16-32 32-Port 16 Gbps Blade FC16-48 48-Port 16 Gbps Blade FC8-64 64-Port 8 Gbps Blade FS8-18 Encryption Blade FX8-24 Extension Blade	16-Port 8 Gbps blade 32-Port 8 Gbps blade 48-Port 8 Gbps blade	Brocade 6510 16 Gbps, 12 port-on-demand software license with 12 16 Gbps SFPs, Cust Kit (331-5721) Brocade 6510 8 Gbps, 12 port-on-demand software license with 12 8 Gbps SFPs, Cust Kit (331-5722)	Brocade 6505 16 Gbps, 12 port-on-demand software license with 12 16 Gbps SFPs, Cust Kit (421-8514) Brocade 6505 8 Gbps, 12 port-on-demand software license with 12 8 Gbps SFPs, Cust Kit (421-8515)	Brocade 300 8 Gbps, 8 port-on-demand software license with SFPs, Cust Kit (330-1149)	**Brocade 5100** 8 Gbps, 8 port-on-demand software license with SFPs, Cust Kit (330-1156) **Brocade 5300** 8 Gbps, 16 port-on-demand software license with SFPs, Cust Kit (330-1141)	Brocade M5424 12 port-on-demand software license with two 8 Gbps SFPs (420-9667)