


BROCADE
ALLIANCE
PARTNER

BROCADE 

NET WORK

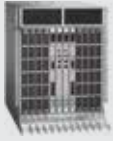

QUICK REFERENCE GUIDE
SAN






SIMPLY REWARDING RELATIONSHIPS

	 BROCADE DCX® 8510-8 BACKBONE	 BROCADE DCX 8510-4 BACKBONE
PART NUMBERS	BR-DCX8518-0001 (includes Enterprise Bundle)	BR-DCX8514-0001 BR-DCX8514-0002 (includes Enterprise Bundle)
TARGET CUSTOMERS	<ul style="list-style-type: none"> Midsize and large data centers containing directors with 8 Gbps or less Organizations looking to: <ul style="list-style-type: none"> Consolidate Reduce energy costs Upgrade their storage Virtualize tier 2/3 workloads Extend metro connectivity over DWDM for FC SAN Establish new workloads requiring SAN Storage 	<ul style="list-style-type: none"> Midsize and large data centers containing directors with 8 Gbps or less Organizations looking to: <ul style="list-style-type: none"> Consolidate Reduce energy costs Upgrade their storage Virtualize tier 2/3 workloads Extend metro connectivity over DWDM for FC SAN Establish new workloads requiring SAN Storage
TYPICAL DEPLOYMENTS	<ul style="list-style-type: none"> Within large enterprise-class data centers (global 1000 companies) Enterprise fabric core Mainframe environments 	<ul style="list-style-type: none"> Within large and midsize data centers Midsize enterprise fabric cores Large enterprise edge or application engine Mainframe environments
PORTS	Up to 384 16 Gbps ports for device connectivity, with an UltraScale inter-chassis link option for up to 32 QSFP ports and 2.1 Tbps of bandwidth between up to 10 chassis	Up to 192 16 Gbps ports for device connectivity with an UltraScale inter-chassis link option for up to 16 QSFP ports and 1 Tbps of bandwidth between up to 6 chassis
PORT SPEED	2, 4, 8, 10, 16 Gbps	2, 4, 8, 10, 16 Gbps
EXPANDABILITY	FC16-32 32-port 16 Gbps blade FC16-48 48-port 16 Gbps blade FC8-32E 32-port 8 Gbps blade FC8-48E 48-port 8 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 FC8-32E 32-port 8 Gbps blade FC8-48E 48-port 8 Gbps blade FC8-64 64-port 8 Gbps blade FS8-18 encryption blade FX8-24 extension blade
FICON/CUP SUPPORT	FICON cascading; support for lossless DLS; FICON CUP; advanced accelerator for FICON	FICON cascading; support for lossless DLS; FICON CUP; advanced accelerator for FICON
HOT CODE ACTIVATION	Yes	Yes
HARDWARE FEATURES	<ul style="list-style-type: none"> Throughput of 8.2 Tbps per chassis Locally-switched ports 700 ns Blade-to-blade latency is 2.1 µsec Hot-swappable blades (CP, core switching and port) 2/4 hot-swappable redundant power supplies 3 hot-swappable redundant fans 	<ul style="list-style-type: none"> Throughput of 4.1 Tbps per chassis Locally-switched ports 700 ns Blade-to-blade latency is 2.1 µsec Hot-swappable blades (CP, core switching and port) 2 hot-swappable redundant power supplies 2 hot-swappable redundant fans
STANDARD BUNDLED SOFTWARE	Brocade Fabric OS, including Brocade advanced zoning, dynamic fabric provisioning, dynamic path selection, FSPF, NPV, in-flight encryption and compression, and virtual fabrics. Brocade Fabric Vision technology, including ClearLink diagnostics, bottleneck detection, enhanced BB credit recovery, FEC, and critical diagnostic and monitoring capabilities. Brocade DCX 8510-8 Backbone comes with Enterprise Bundle that includes Adaptive Networking, Advanced Performance Monitoring, Extended Fabric, Fabric Watch, Server Application Optimization and Trunking.	Brocade Fabric OS, including Brocade advanced zoning, dynamic fabric provisioning, dynamic path selection, FSPF, NPV, in-flight encryption and compression, and virtual fabrics. Brocade Fabric Vision technology, including ClearLink diagnostics, bottleneck detection, enhanced BB credit recovery, FEC, and critical diagnostic and monitoring capabilities. Brocade DCX 8510-4 Backbone with Enterprise Bundle includes Adaptive Networking, Advanced Performance Monitoring, Extended Fabric, Fabric Watch, Server Application Optimization and Trunking.
OPTIONAL SOFTWARE UPGRADES	<ul style="list-style-type: none"> 10 GbE License for Extension or Integrated 10 GbE FC (BR-DCX10 GE-01) Advanced Accelerator for FICON (BR-DCXAFI-01) FICON CUP (BR-DCXCUP-01) Integrated Routing (BR-DCXIR-01) UltraScale ICL POD kit (BR-DCXICLPOD-01) UltraScale Enterprise ICL (BR-DCX8ENTICL-01) Backbone Encryption Performance Upgrade (BR-ENCPRF48-01) 	<ul style="list-style-type: none"> Enterprise Bundle (BR-DCX4SEB-01) 10 GbE License for Extension or Integrated 10 GbE FC (BR-DCX10 GE-01) Adaptive Networking (BR-DCX4SAN-01) Advanced Accelerator for FICON (BR-DCXAFI-01) Advanced Extension (BR-DCXAEX-01) Advanced Performance Monitor (BR-48KPRF-01) Extended Fabrics (BR-48KEXF-01) Fabric Watch (BR-48KFWH-01) FICON CUP (BR-DCX4SCUP-01) Integrated Routing (BR-DCX4SIR-01) ISL Trunking (BR-48KTRK-01) Server Application Optimization (BR-DCX4SSAO-01) UltraScale ICL POD kit (BR-DCXICLPOD-01) UltraScale Enterprise ICL (BR-DCX8ENTICL-01) Backbone Encryption Performance Upgrade (BR-ENCPRF48-01)
OTHER BASE PRODUCTS	N/A	18-24 in. Port Side Exhaust Kit (XBR-DCX4S-0130) 27-31 in. Port Side Exhaust Kit (XBR-DCX4S-0121)
OS SUPPORTED	Fabric OS 7.x	Fabric OS 7.x

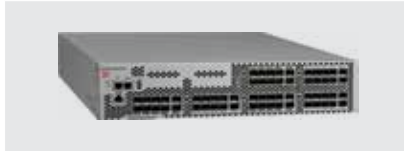
			
	BROCADE 6520 SWITCH	BROCADE 6510 SWITCH	BROCADE 6505 SWITCH
PART NUMBERS	BR-6520-48-16G-F (48P 16G, SWL SFP, BR, AC, Non-port side exhaust air flow) BR-6520-48-8G-F (48P 8G SWL SFP, BR, AC, Non-port side exhaust air flow) BR-6520-48-16G-R (48P 16G, SWL SFP, BR, AC, Port side exhaust air flow) BR-6520-48-8G-R (48P 8G SWL SFP, BR, AC, Port side exhaust air flow) BR-6520-96-16G-R (96P 16G, SWL SFP, BR, AC, Port side exhaust air flow, includes Enterprise Bundle)	BR-6510-24-8G-F (24P, 8 Gbps SFPs, Non-port side exhaust) BR-6510-24-8G-R (24P, 8 Gbps SFPs, Port side exhaust) BR-6510-24-16G-F (24P, 16 Gbps SFPs, Non-port side exhaust) BR-6510-24-16G-R (24P, 16 Gbps SFPs, Port side exhaust) BR-6510-48-16G-F (48P, 16 Gbps SFPs, Non-port side exhaust, includes Enterprise Bundle) BR-6510-48-16G-R (48P, 16 Gbps SFPs, Port side exhaust, includes Enterprise Bundle)	BR-6505-12-0R (12P, 0 SFPs, 1 Power Supply) BR-6505-12-16G-0R (12P, 16 Gbps SFPs, 1 Power Supply) BR-6505-24-16G-1R (24P, 16 Gbps SFPs, 1 Power Supply, includes Enterprise Bundle)
TARGET CUSTOMERS	<ul style="list-style-type: none"> High density enterprise customers looking to refresh or consolidate data centers, servers, or storage to reclaim floor/rack space or reduce energy consumption Storage upgrades due to consolidation, end-of-life/support, lease expiration, or technology refresh Adoption of 16 Gbps Fibre Channel arrays or solid state drive technology Hyper-growth virtualization of tier 2/3 applications and workloads New and emerging workloads like (VDI) and High-Frequency Trading (HFT), requiring scalable and low-latency SAN storage Large data centers with 4 Gbps or less bandwidth or insufficient port density 	<ul style="list-style-type: none"> Midsize and large data centers containing directors with 8 Gbps or less bandwidth or limited port density Organizations looking to consolidate/reduce energy costs Organizations upgrading their storage Organizations virtualizing tier 2/3 workloads Organizations extending their metro connectivity over DWDM for FC SAN Organizations managing new and emerging workloads that require SAN storage 	<ul style="list-style-type: none"> Midsize and small data centers with Brocade, Cisco, or QLogic switches with 8 Gbps or less bandwidth Customers looking to refresh or consolidate data centers, servers, or storage to reclaim floor/rack space or reduce energy consumption Organizations looking at storage upgrades due to end-of-life/support, lease expiration, technology refresh, or consolidation Organizations virtualizing tier 2/3 workloads Organizations managing new and emerging workloads that require SAN storage
TYPICAL DEPLOYMENTS	<ul style="list-style-type: none"> Within large data centers At the enterprise edge As a fabric core switch 	<ul style="list-style-type: none"> Various within midsize and small data centers Core or edge switch 	<ul style="list-style-type: none"> To support an entry-level SAN Edge switch deployment
PORTS	48, 72, 96	24, 36, 48	12, 24
PORT SPEED	2, 4, 8, 10, 16 Gbps	2, 4, 8, 10, 16 Gbps	2, 4, 8, 16 Gbps
EXPANDABILITY	24 ports on demand: 24 x 16 Gbps SW optics (XBR-ENTPOD-16G) 24 x 8 Gbps SW optics (XBR-ENTPOD-8G)	12 ports on demand: 12 x 16 Gbps SW optics (XBR-MIDR12POD-16G) 12 x 8 Gbps SW optics (XBR-MIDR12POD-8G)	12 ports on demand: 12 x 16 Gbps SW optics (XBR-SMED12POD-16G) with ox optics (BR-SMED12POD-01)
FICON/CUP SUPPORT	Not available	Yes	Not available
HOT CODE ACTIVATION	Yes	Yes	Yes
HARDWARE FEATURES	<ul style="list-style-type: none"> 2 hot-swappable, redundant integrated power supply/fan FRUs Optional rack mount kits: fixed, or mid-mount Optional front to back or back to front air flow 	<ul style="list-style-type: none"> 2 hot-swappable, redundant integrated power supply/fan FRUs Optional rack mount kits: fixed, or mid-mount 	<ul style="list-style-type: none"> 1 hot-swappable integrated power supply/fan with optional redundant power supply/fan (XBR-5100-0001) Optional rack mount kits: fixed or mid-mount
STANDARD BUNDLED SOFTWARE	Brocade Fabric OS, including Brocade advanced zoning, dynamic fabric provisioning, dynamic path selection, FSPF, NPV, in-flight encryption and compression, virtual fabrics, Adaptive Networking and Server Application Optimization. Brocade Fabric Vision technology, including ClearLink diagnostics, bottleneck detection, enhanced BB credit recovery, FEC, and critical diagnostic and monitoring capabilities. Brocade 6520 with Enterprise Bundle includes Advanced Performance Monitoring, Extended Fabric, Fabric Watch, and Trunking.	Brocade Fabric OS, including Brocade advanced zoning, dynamic fabric provisioning, dynamic path selection, FSPF, NPV, in-flight encryption and compression, and virtual fabrics. Brocade Fabric Vision technology, including ClearLink diagnostics, bottleneck detection, enhanced BB credit recovery, FEC, and critical diagnostic and monitoring capabilities. Brocade 6510 with Enterprise Bundle includes Adaptive Networking, Advanced Performance Monitoring, Extended Fabric, Fabric Watch, Server Application Optimization and Trunking.	Brocade Fabric OS, including Brocade advanced zoning, dynamic fabric provisioning, dynamic path selection, FSPF, NPV, in-flight encryption and compression, and virtual fabrics. Brocade Fabric Vision technology, including ClearLink diagnostics, bottleneck detection, enhanced BB credit recovery, FEC, and critical diagnostic and monitoring capabilities. Brocade 6505 with Enterprise Bundle includes Adaptive Networking, Advanced Performance Monitoring, Extended Fabric, Fabric Watch, Server Application Optimization and Trunking.
OPTIONAL SOFTWARE UPGRADES	<ul style="list-style-type: none"> Enterprise Bundle (BR-MENTEB4-01) includes FWH, TRK, PRF, Ext Fabric Extended Fabric (BR-MENTEXF-01) Fabric Watch (BR-MENTFWH-01) Advance Performance Monitoring (BR-MENTPRF-01) ISL Trunking (BR-MENTTRK-01) Integrated Routing (BR-MENTIR-01) 10G FC (BR-MENT10G-01) 	<ul style="list-style-type: none"> Enterprise Bundle (BR-MIDREB-01) includes TRK, APM, FW, EF, AN, SAO Adaptive Networking (BR-MIDRAN-01) Advanced Performance Monitor (BR-3900PRF-02) Extended Fabric (BR-3900EXF-02) Fabric Watch (BR-3900FWH-02) FICON CUP (BR-MIDRCUP-01) Integrated Routing (BR-MIDRIR-01) ISL Trunking (BR-3900TRK-02) Server Application Optimization (BR-MIDRSAO-01) Integrated 10 Gbps FC License (BR-MIDR10G-01) 	<ul style="list-style-type: none"> Enterprise Bundle (BR-SMEDEB-01) includes TRK, APM, FW, EF, AN, SAO Adaptive Networking (BR-SMEDAN-01) Advanced Performance Monitor (BR-SMEDPRF-01) Extended Fabric (BR-SMEDEXF-01) Fabric Watch (BR-SMEDFWH-01) ISL Trunking (BR-SMEDTRK8-01) Server Application Optimization (BR-SMEDSA)
OTHER BASE PRODUCTS	EZSwitchSetup	EZSwitchSetup	EZSwitchSetup
OS SUPPORTED	Fabric OS 7.1	Fabric OS 7.x	Fabric OS 7.x

			
		BROCADE DCX BACKBONE	BROCADE DCX-4S BACKBONE
BACKBONES	PART NUMBERS	BR-DCX-0001-A (includes Enterprise Bundle)	BR-DCX4S-0001-A BR-DCX4S-0002-A (includes Enterprise Bundle)
	TARGET CUSTOMERS	<ul style="list-style-type: none"> Organizations with enormous data centers that support worldwide entities Organizations building out environments for the next 10–15 years Organizations that require scalability to meet growing bandwidth and evolving protocols Organizations looking to leverage existing assets, avoiding rip-and-replace 	<ul style="list-style-type: none"> Midsize enterprises (excellent core backbone) Large enterprises (excellent edge backbone) Organizations with multi-tier fabrics with Brocade DCX in the core
	TYPICAL DEPLOYMENTS	<ul style="list-style-type: none"> Within large enterprise-class data centers (global 1000 companies) Mainframe environments 	<ul style="list-style-type: none"> Within large enterprise-class data centers (global 1000 companies) To address security and compliance To scale and support heterogeneous environments
	PORTS	Up to 512 8 Gbps ports for device connectivity, with an inter-chassis links option for an additional 512 Gbps of bandwidth between DCX chassis	Up to 256 8 Gbps ports for device connectivity with an inter-chassis links option for an additional 256 Gbps of bandwidth between DCX or DCX-4S chassis
	PORT SPEED	1, 2, 4, 8, 10 Gbps	1, 2, 4, 8, 10 Gbps
	EXPANDABILITY	FC8-16 16-port 8 Gbps blade FC8-32 32-port 8 Gbps blade FC8-48 48-port 8 Gbps blade FC8-64 64-port 8 Gbps blade FS8-18 encryption blade FX8-24 extension blade FCOE10-24 FCoE blade	FC8-16 16-port 8 Gbps blade FC8-32 32-port 8 Gbps blade FC8-48 48-port 8 Gbps blade FC8-64 64-port 8 Gbps blade FS8-18 encryption blade FX8-24 extension blade FCOE10-24 FCoE blade
	FICON/CUP SUPPORT	Yes (with FICON CUP license)	Yes (with FICON CUP license)
	HOT CODE ACTIVATION	Yes	Yes
	HARDWARE FEATURES	<ul style="list-style-type: none"> Throughput of 4.6 Tbps per chassis Locally-switched ports 700 ns Blade-to-blade latency is 2.1 µsec Hot-swappable blades (CP, core switching and port) 2/4 hot-swappable redundant power supplies 3 hot-swappable redundant fans 	<ul style="list-style-type: none"> Throughput of 2.3 Tbps per chassis Locally-switched ports 700 ns Blade-to-blade latency is 2.1 µsec Hot-swappable blades (CP, core switching and port) 2 hot-swappable redundant power supplies 2 hot-swappable redundant fans
	STANDARD BUNDLED SOFTWARE	Enterprise Bundle, including adaptive networking, advanced performance monitoring, extended fabric, fabric watch, server application optimization, and trunking. Enhanced Group Management (EGM).	Enterprise Bundle, including adaptive networking, advanced performance monitoring, extended fabric, fabric watch, server application optimization, and trunking. Enhanced Group Management (EGM).
	OPTIONAL SOFTWARE UPGRADES	<ul style="list-style-type: none"> Advanced Accelerator for FICON (BR-DCXAFI-01) Brocade Accelerator for FICON for DCX, including FICON XRC emulation and tape pipelining (BR-DCXFIA-02) FICON CUP (BR-DCXCUP-01) Integrated Routing (BR-DCXIR-01) ICL kit (DCX-to-DCX), including one ICL (16 Link) license and two cables (BR-DCX-1000) ICL kit (DCX-to-DCX-4S), including one ICL (8 Link) license and two cables (BR-DCX4S-1000) ICL (8 Link) License (BR-DCX4SICL-01) Backbone Encryption Performance Upgrade (BR-ENCPRF48-01) 	<ul style="list-style-type: none"> Enterprise Bundle (BR-DCX4SEB-01) Adaptive Networking (BR-DCX4SAN-01) Advanced Accelerator for FICON (BR-DCXAFI-01) Advanced Performance Monitor (BR-48KPRF-01) Brocade Accelerator for FICON for DCX, including FICON XRC emulation and tape pipelining (BR-DCXFIA-02) Extended Fabrics (BR-48KEXF-01) Fabric Watch (BR-48KFWH-01) FICON CUP (BR-DCX4SCUP-01) Integrated Routing (BR-DCX4SIR-01) ISL Trunking (BR-48KTRK-01) Server Application Optimization (BR-DCX4SSAO-01) ICL kit, including one ICL (8 Link) license and two cables (BR-DCX4S-1000) Backbone Encryption Performance Upgrade (BR-ENCPRF48-01)
	OTHER BASE PRODUCTS	N/A	18-24 in. Port Side Exhaust Kit (XBR-DCX4S-0130) 27-31 in. Port Side Exhaust Kit (XBR-DCX4S-0121)
OS SUPPORTED	Fabric OS 6.x/7.x	Fabric OS 6.x/7.x	

			
	BROCADE 300 SWITCH	BROCADE 5300 SWITCH	BROCADE 8000 SWITCH
PART NUMBERS	BR-310-0008-A (8P, W/O E-port, 8 Gbps SFPs, EGM) BR-320-0008-A (8P, Full Fabric, 8 Gbps SFPs, EGM) BR-340-0008-A (16P, Full Fabric, 8 Gbps SFPs, EGM) BR-360-0008-A (24P, Full Fabric, 8 Gbps SFPs, EGM)	BR-5320-0008-A (48P, 8 Gbps SFPs, EGM) BR-5340-0008-A (80P, 8 Gbps SFPs, EGM) BR-5340-1008-A (80P, 8 Gbps SFPs, EGM, Enterprise S/W Bundle)	BR-8000-0008-A (24P CEE, 8P FC with 8 Gbps SFPs)
TARGET CUSTOMERS	<ul style="list-style-type: none"> • Small to medium-size businesses with a SAN • Cost-sensitive organizations • Organizations migrating from DAS to SAN 	<ul style="list-style-type: none"> • Organizations with midsize to enterprise-level SAN requirements • Organizations looking to consolidate, virtualize and increase availability 	<ul style="list-style-type: none"> • Organizations requiring LAN and SAN connectivity • Midsize to enterprise-size data centers • Organizations requiring server I/O Consolidation
TYPICAL DEPLOYMENTS	<ul style="list-style-type: none"> • Entry • Workgroup • Department • Edge 	<ul style="list-style-type: none"> • Within workgroups • At the enterprise edge • As a fabric core switch • Within mainframe environments 	<ul style="list-style-type: none"> • Converged edge • Server virtualization • Open systems environments
PORTS	8, 16, 24	48, 64, 80	24 (CEE), 8 (FC)
PORT SPEED	1, 2, 4, 8 Gbps	1, 2, 4, 8 Gbps	10 Gbps (CEE); 1, 2, 4, 8 Gbps (FC)
EXPANDABILITY	Ports on demand (8 ports)	Ports on demand (16 ports)	N/A
FICON/CUP SUPPORT	No	Yes	No
HOT CODE ACTIVATION	Yes	Yes	No (future release)
HARDWARE FEATURES	<ul style="list-style-type: none"> • Single fixed power supply • Fixed redundant fans • Singular switch FRU • Optional rack mount kits: fixed, slide, or mid-mount 	<ul style="list-style-type: none"> • 2 hot-swappable, redundant power supplies • 3 hot-swappable redundant fans • Optional rack mount kits: fixed, slide, or mid-mount 	<ul style="list-style-type: none"> • 2 hot-swappable, redundant power supplies • 3 hot-swappable redundant fans • Optional rack mount kits: fixed, slide, or mid-mount
STANDARD BUNDLED SOFTWARE	Full fabric (all models except 310), web tools, advanced zoning.	Full fabric, web tools, advanced zoning, enterprise bundle (80-port EB SKUs).	Full fabric, FCoE, web tools, advanced zoning, Enhanced Group Management.
OPTIONAL SOFTWARE UPGRADES	<ul style="list-style-type: none"> • Full Fabric Upgrade for BR-310 (BR-SMEDEPT-01) • Enterprise Bundle (BR-SMEDEB-01) includes TRK, APM, FW, EF, AN, SAO • Adaptive Networking (BR-SMEDAN-01) • Advanced Performance Monitor (BR-SMEDPRF-01) • Extended Fabrics (BR-SMEDEXF-01) • Fabric Watch (BR-SMEDFWH-01) • ISL Trunking (BR-SMEDTRK8-01) • Server Application Optimization (BR-SMEDSAO-01) 	<ul style="list-style-type: none"> • Enterprise Bundle (BR-MENTEB-01) includes TRK, APM, FW, EF, AN, SAO • Adaptive Networking (BR-MENTAN-01) • Advanced Performance Monitor (BR-MENTPRF-01) • Extended Fabrics (BR-MENTEXF-01) • Fabric Watch (BR-MENTFWH-01) • FICON CUP (BR-MENTCUP-01) • Integrated Routing (BR-MENTIR-01) • ISL Trunking (BR-MENTTRK-01) • Server Application Optimization (BR-MENTSAO-01) 	<ul style="list-style-type: none"> • Advanced Performance Monitor (BR-3900PRF-02) • Fabric Watch (BR-3900FWH-02) • ISL Trunking (BR-3900TRK-02)
OTHER BASE PRODUCTS	Dynamic Path Selection, NPIV, Access Gateway Mode, EZSwitchSetup Wizard	Dynamic Path Selection, NPIV, EZSwitchSetup Wizard	Layer 2 Ethernet, Dynamic Path Selection, Security
OS SUPPORTED	Fabric OS 6.x/7.x	Fabric OS 6.x/7.x	Fabric OS 6.x/7.x



BROCADE 7800 EXTENSION SWITCH







BROCADE VDX® 6720 SWITCH







BROCADE VDX 6730 SWITCH

FABRIC EXTENSION	PART NUMBERS	BR-7800-0001-A (4 x 8 Gbps SWL SFPs, 2 x 1 GbE ports enabled) BR-7800F-0001-A (16 x 8 Gbps SWL SFPs, 6 x 1 GbE ports enabled) BR-7800F-0002-A (16 x 8 Gbps LWL SFPs, 6 x 1 GbE ports enabled)	BR-VDX 6720-16-F/-R BR-VDX 6720-24-F/-R BR-VDX 6720-40-F/-R BR-VDX 6720-60-F/-R	BR-VDX 6730-16-F/-R BR-VDX 6730-24-F/-R BR-VDX 6730-40-F/-R BR-VDX 6730-60-F/-R
	TARGET CUSTOMERS	<ul style="list-style-type: none"> Organizations requiring remote data replication for BC/DR Organizations with: <ul style="list-style-type: none"> Centralized SAN backup and archiving Global data migration and sharing 	<ul style="list-style-type: none"> Organizations with LAN and SAN connectivity Customers seeking server I/O consolidation 	<ul style="list-style-type: none"> Organizations with LAN and SAN connectivity Customers seeking server I/O consolidation
	TYPICAL DEPLOYMENTS	<ul style="list-style-type: none"> Data centers and remote offices Rack-based or standalone extension switch infrastructure Direct-attached or fabric-attached disk and tape Open systems and mainframe 	<ul style="list-style-type: none"> As a 10 GbE fixed port FCoE switch with Brocade VCS® Fabric technology To converge storage traffic (FCoE, iSCSI) in the Ethernet fabric; multi-hop FCoE 	<ul style="list-style-type: none"> As a 10 GbE fixed port FCoE switch with Brocade VCS Fabric technology To converge storage traffic (FCoE, iSCSI) in the Ethernet fabric; multi-hop FCoE As native FC ports bridging Brocade VCS fabric to FC SAN
	PORTS	4 FC and 2 GbE; 16 FC and 6 GbE	Up to 24 10 GbE/1 GbE SFP+ ports on 6730-24 for FCoE Up to 60 10 GbE/1 GbE SFP+ ports on 6730-60 for FCoE	Up to 24 10 GbE/1 GbE SFP+ ports for FCoE and 8 FC ports on 6730-24 Up to 60 10 GbE/1 GbE SFP+ ports for FCoE and 16 FC ports on 6730-600
	PORT SPEED	1, 2, 4, 8 Gbps (FC); 1 GbE (FCIP)	10 Gbps (CEE)	10 Gbps (CEE), 1, 2, 4, 8 Gbps (FC)
	EXPANDABILITY	7800 4/2 to 7800 16/6 upgrade software: 12 x 8 Gbps SWL SFPs (XBR-7800UG-0001-A) 12 x 8 Gbps LWL SFPs (XBR-7800UG-0002-A)	VDX 6720-16: 8-port POD (BR-VDX 6720-24POD-01) VDX 6720-40: 10-port PODs (BR-VDX 6720-60POD-01)	VDX 6730-16: 8-port POD (BR-VDX 6730-24POD-01) VDX 6730-40: 10-port PODs (BR-VDX 6730-60POD-01) FCoE POD VDX 6730-24: 8-port FC POD (XBR-VDX FCOE-01), includes 8 x 8 Gbps FC SWL optics VDX 6730-60: 16-port FC POD (XBR-VDX FCOE-02), includes 16 x 8 Gbps FC SWL optics
	FICON/CUP SUPPORT	Yes	No	No
	HOT CODE ACTIVATION	Yes	No	No
	HARDWARE FEATURES	<ul style="list-style-type: none"> 2 hot-swappable, redundant integrated power supply/fan FRUs SAN and storage bandwidth up to 128 Gbps FCIP bandwidth up to 6 Gbps Advanced hardware compression Optional rack mount kits: fixed, slide, or mid-mount 	<ul style="list-style-type: none"> Up to 1200 Gbps switching capacity; wire-speed on all ports ISL trunking in hardware Ports on demand Direct-attached copper and optical transceiver cabling options Hot-swappable, redundant power and cooling Reversible front-to-rear airflow 2 hot-swappable and redundant power supplies 	<ul style="list-style-type: none"> Up to 1456 Gbps switching capacity; wire-speed on all ports ISL trunking in hardware Ports on demand Direct-attached copper and optical transceiver cabling options Hot-swappable, redundant power and cooling Reversible front-to-rear airflow 2 hot-swappable and redundant power supplies
	STANDARD BUNDLED SOFTWARE	FCIP Fast Write, Open Systems Tape Pipelining, Storage-Optimized TCP, Advanced Software Compression, Enhanced Group Management.	<ul style="list-style-type: none"> Brocade VCS Fabric technology to build Ethernet fabrics Automatic migration of port profiles Full Layer 2 feature set VMware network automation 	<ul style="list-style-type: none"> Brocade VCS Fabric technology to build Ethernet fabrics Automatic migration of port profiles Full Layer 2 feature set VMware network automation
OPTIONAL SOFTWARE UPGRADES	Advanced Extension: <ul style="list-style-type: none"> FCIP Trunking and Adaptive Rate Limiting (BR-EXTSAEX-01) Advanced Accelerator for FICON (BR-EXTSAFI-01) Optional Fabric OS features: Enterprise Bundle (BR-EXTSEB-01) includes TRK, APM, FW, EF, AN, SAO Adaptive Networking (BR-EXTSAN-01) Advanced Performance Monitoring (BR-EXTSPRF-01) Extended Fabrics (BR-EXTSEXF-01) Fabric Watch (BR-EXTSFWH-01) FICON CUP (BR-EXTSCUP-01) Integrated Routing (BR-EXTSIR-01) ISL Trunking (BR-EXTSTRK-01) Server Application Optimization (BR-EXTSSAO-01) 	VDX 6720-24: <ul style="list-style-type: none"> VCS License (BR-VDX 6720-24VCS-01) FCoE License (BR-VDX 6720-24FCOE-01) VDX 6720-60: <ul style="list-style-type: none"> VCS License (BR-VDX 6720-60VCS-01) FCoE License (BR-VDX 6720-60FCOE-01) 	VDX 6730-24: <ul style="list-style-type: none"> VCS License (BR-VDX6730-24VCS-01) FCoE License (XBR-VDXFCOE-01), includes 8x 8 Gbps FC SWL optics VDX 6730-60: <ul style="list-style-type: none"> VCS License (BR-VDX6730-60VCS-01) FCoE License (XBR-VDXFCOE-02), includes 16 x 8 Gbps FC SWL optics 	
OTHER BASE PRODUCTS	Dynamic Path Selection, NPIV, EZSwitchSetup Wizard	Layer 2 Ethernet, Dynamic Path Selection, Security	Layer 2 Ethernet, Dynamic Path Selection, Security	
OS SUPPORTED	Fabric OS 6.x/7.x	Network OS 2.x	Network OS 2.x	

ETHERNET FABRIC DATA CENTER SWITCHES WITH NETWORK OS

				
	BROCADE 815 FIBRE CHANNEL HBA	BROCADE 825 FIBRE CHANNEL HBA	BROCADE 415 FIBRE CHANNEL HBA	BROCADE 425 FIBRE CHANNEL HBA
PART NUMBERS	BR-815-0010	BR-825-0010	BR-415-0010	BR-425-001
PROTOCOL	FC	FC	FC	FC
PORTS	1	2	1	2
PORT SPEED	8/4/2 Gbps	8/4/2 Gbps	4/2/1 Gbps	4/2/1 Gbps
BUS TYPE	PCIe 2.0 x8	PCIe 2.0 x8	PCIe 2.0 x8	PCIe 2.0 x8





FC HOST BUS ADAPTERS (HBAS)

				
	BROCADE 1860-1 FIBRE CHANNEL HBA	BROCADE 1860-2 FIBRE CHANNEL HBA	BROCADE 1010 FIBRE CHANNEL HBA	BROCADE 1020 FIBRE CHANNEL HBA
PART NUMBERS	BR-1860-1F00 (16 GbE optics), BR-1860-1P00 (10 GbE optics), BR-1860-1C00 (no media)	BR-1860-2F00 (16 GbE optics), BR-1860-2P00 (10 GbE optics), BR-1860-2C00 (no media)	BR-1010-0010 (Optical), BR-1010-1010 (no media)	BR-1020-0010 (Optical), BR-1020-1010 (no media)
PROTOCOL	FC, DCB, FCoE, iSCSI	FC, DCB, FCoE, iSCSI	DCB, FCoE, iSCSI	DCB, FCoE, iSCSI
PORTS	1	2	1	2
PORT SPEED	16/8/4/2 Gbps FC, 10 GbE	16/8/4/2 Gbps FC, 10 GbE	10 GbE	10 GbE
BUS TYPE	PCIe 2.0 x8	PCIe 2.0 x8	PCIe 2.0 x8	PCIe 2.0 x8





FC HOST BUS ADAPTERS (HBAS)

	LICENSE FOR UP TO 2,560 SAN SW PORTS	LICENSE FOR UP TO 9,000 SAN SW PORTS	UPGRADE FROM 2,560 TO 9,000 SAN SW PORTS	LICENSE FOR UP TO 2,560 SAN SW PORTS, 150 IP DEVICES	LICENSE FOR UP TO 9,000 SAN SW PORTS, 550 IP DEVICES	UPGRADE IP+SAN SW LICENSE FROM 2,560 TO 9,000 SAN SW PORTS	UPGRADE IP+SAN SW LICENSE UP TO 550 IP DEVICES, 9,000 SAN SW PORTS	ADD 2,560 SAN SW PORTS TO IP LICENSE	ADD 9,000 SAN SW PORTS TO IP LICENSE
PART NUMBERS	BR-NTWADV-SAN-PLU	BR-NTWADV-SAN-ENT	BR-NTWADV-SAN-PLU-UPG	BR-NTWADV-BPLU	BR-NTWADV-BENT	BR-NTWADV-ADDSANPLU-UPG	BR-NTWADV-BPLU-UPG	BR-NTWADV-ADD-SAN-PLU	BR-NTWADV-ADD-SAN-ENT
TARGET CUSTOMER	New customer	New customer	Existing customer	New customer	New customer	Existing customer	Existing customer	Existing customer	Existing customer
PORTS	Up to 2,560 switch ports	Up to 9,000 switch ports	Up to 9,000 switch ports	Up to 2,560 switch ports	Up to 9,000 switch ports	Up to 9,000 switch ports	Up to 9,000 switch ports	Up to 2,560 switch ports	Up to 9,000 switch ports
FABRICS	Up to 36 fabrics	Up to 36 fabrics	Up to 36 fabrics	Up to 36 fabrics	Up to 36 fabrics	Up to 36 fabrics	Up to 36 fabrics	Up to 36 fabrics	Up to 36 fabrics
IP DEVICES	N/A	N/A	N/A	Up to 150 IP Devices	Up to 550 IP Devices	Up to 550 IP Devices	Up to 550 IP Devices	Up to 50 IP devices	Up to 50 IP devices
ADDITIONAL INFORMATION			Prerequisite is BR-NTWADV-SANPLU; minimum of one year support is required.			Minimum of one year support is required.	Prerequisite is BR-NTWADV-BPLU.	Prerequisite is BR-NTWADV-IP-BASE or BR-NTWADV-IP-DC; minimum of one year support is required.	Prerequisite is BR-NTWADV-IP-BASE or BR-NTWADV-IP-DC; minimum of one year support is required.

BROCADE NETWORK ADVISOR LICENSES

				
	BROCADE 815 FIBRE CHANNEL HBA	BROCADE 825 FIBRE CHANNEL HBA	BROCADE 415 FIBRE CHANNEL HBA	BROCADE 425 FIBRE CHANNEL HBA
PART NUMBERS	BR-815-0010	BR-825-0010	BR-415-0010	BR-425-001
PROTOCOL	FC	FC	FC	FC
PORTS	1	2	1	2
PORT SPEED	8/4/2 Gbps	8/4/2 Gbps	4/2/1 Gbps	4/2/1 Gbps
BUS TYPE	PCIe 2.0 x8	PCIe 2.0 x8	PCIe 2.0 x8	PCIe 2.0 x8

FC HOST BUS ADAPTERS (HBAS)

				
	BROCADE 1860-1 FIBRE CHANNEL HBA	BROCADE 1860-2 FIBRE CHANNEL HBA	BROCADE 1010 FIBRE CHANNEL HBA	BROCADE 1020 FIBRE CHANNEL HBA
PART NUMBERS	BR-1860-1F00 (16 GbE optics), BR-1860-1P00 (10 GbE optics), BR-1860-1C00 (no media)	BR-1860-2F00 (16 GbE optics), BR-1860-2P00 (10 GbE optics), BR-1860-2C00 (no media)	BR-1010-0010 (Optical), BR-1010-1010 (no media)	BR-1020-0010 (Optical), BR-1020-1010 (no media)
PROTOCOL	FC, DCB, FCoE, iSCSI	FC, DCB, FCoE, iSCSI	DCB, FCoE, iSCSI	DCB, FCoE, iSCSI
PORTS	1	2	1	2
PORT SPEED	16/8/4/2 Gbps FC, 10 GbE	16/8/4/2 Gbps FC, 10 GbE	10 GbE	10 GbE
BUS TYPE	PCIe 2.0 x8	PCIe 2.0 x8	PCIe 2.0 x8	PCIe 2.0 x8

FC HOST BUS ADAPTERS (HBAS)

	PART NUMBERS	TARGET CUSTOMER	PORTS	FABRICS	IP DEVICES	ADDITIONAL INFORMATION
LICENSE FOR UP TO 2,560 SAN SW PORTS	BR-NTWADV-SAN-PLU	New customer	Up to 2,560 switch ports	Up to 36 fabrics	N/A	-
LICENSE FOR UP TO 9,000 SAN SW PORTS	BR-NTWADV-SAN-ENT	New customer	Up to 9,000 switch ports	Up to 36 fabrics	N/A	-
UPGRADE FROM 2,560 TO 9,000 SAN SW PORTS	BR-NTWADV-SAN-PLU-UPG	Existing customer	Up to 9,000 switch ports	Up to 36 fabrics	N/A	Prerequisite is BR-NTWADV-SANPLU; minimum of one year support is required.
LICENSE FOR UP TO 2,560 SAN SW PORTS, 150 IP DEVICES	BR-NTWADV-BPLU	New customer	Up to 2,560 switch ports	Up to 36 fabrics	Up to 150 IP Devices	-
LICENSE FOR UP TO 9,000 SAN SW PORTS, 550 IP DEVICES	BR-NTWADV-BENT	New customer	Up to 9,000 switch ports	Up to 36 fabrics	Up to 550 IP Devices	-
UPGRADE IP+SAN SW LICENSE FROM 2,560 TO 9,000 SAN SW PORTS	BR-NTWADV-ADDSANPLU-UPG	Existing customer	Up to 9,000 switch ports	Up to 36 fabrics	Up to 550 IP Devices	Minimum of one year support is required.
UPGRADE IP+SAN SW LICENSE UP TO 550 IP DEVICES, 9,000 SAN SW PORTS	BR-NTWADV-BPLU-UPG	Existing customer	Up to 9,000 switch ports	Up to 36 fabrics	Up to 550 IP Devices	Prerequisite is BR-NTWADV-BPLU.
ADD 2,560 SAN SW PORTS TO IP LICENSE	BR-NTWADV-ADD-SAN-PLU	Existing customer	Up to 2,560 switch ports	Up to 36 fabrics	Up to 50 IP devices	Prerequisite is BR-NTWADV-IP-BASE or BR-NTWADV-IP-DC; minimum of one year support is required.
ADD 9,000 SAN SW PORTS TO IP LICENSE	BR-NTWADV-ADD-SAN-ENT	Existing customer	Up to 9,000 switch ports	Up to 36 fabrics	Up to 50 IP devices	Prerequisite is BR-NTWADV-IP-BASE or BR-NTWADV-IP-DC; minimum of one year support is required.

BROCADE NETWORK ADVISOR LICENSES

Contact us at channel@brocade.com

CORPORATE HEADQUARTERS

San Jose, CA USA
T: +1-408-333-8000
info@brocade.com

EUROPEAN HEADQUARTERS

Geneva, Switzerland
T: +41-22-799-56-40
emea-info@brocade.com

ASIA PACIFIC HEADQUARTERS

Singapore
T: +65-6538-4700
apac-info@brocade.com