NETWORK
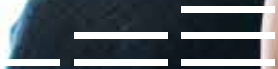
BROCADE
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QUICK REFERENCE GUIDE
SAN

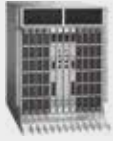|	BROCADE® DCX® 8510-8 BACKBONE	BROCADE DCX 8510-4 BACKBONE
PART NUMBERS	BR-DCX8518-0001 (includes Enterprise Bundle)	BR-DCX8514-0001 BR-DCX8514-0002 (includes Enterprise Bundle)

TARGET CUSTOMERS	• Midsize and large data centers containing directors with 8 Gbps or less
	• Organizations looking to:
	  – 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
		• Midsize and large data centers containing directors with 8 Gbps or less
		• Organizations looking to:
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		  – 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	• Within large enterprise-class data centers (global 1000 companies) • Enterprise fabric core • Mainframe environments	• Within large and midsize data centers • Midsize enterprise fabric cores • Large enterprise edge or application engine • Mainframe environments
PORTS	Up to 512 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 12 chassis	Up to 256 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 FC16-64 64-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 FX8-24 extension blade	FC16-32 32-port 16 Gbps blade FC16-48 48-port 16 Gbps blade FC16-64 64-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 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	• Throughput of 10.2 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	• Throughput of 5.1 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, NPIV, in-flight encryption and compression, virtual fabrics, Adaptive Networking, and Server Application Optimization. Brocade Fabric Vision technology, including ClearLink diagnostics, Monitoring and Alerting Policy Suite (MAPS), Flow Vision, bottleneck detection, enhanced BB credit recovery, FEC, and critical diagnostic and monitoring capabilities. Brocade DCX 8510-8 Backbone comes with Enterprise Bundle that includes Fabric Vision technology, Advanced Performance Monitoring, Extended Fabric, Fabric Watch, and Trunking.	Brocade Fabric OS, including Brocade advanced zoning, dynamic fabric provisioning, dynamic path selection, FSPF, NPIV, in-flight encryption and compression, virtual fabrics, Adaptive Networking, and Server Application Optimization. Brocade Fabric Vision technology, including ClearLink diagnostics, Monitoring and Alerting Policy Suite (MAPS), Flow Vision, bottleneck detection, enhanced BB credit recovery, FEC, and critical diagnostic and monitoring capabilities. Brocade DCX 8510-4 Backbone with Enterprise Bundle includes Fabric Vision technology, Advanced Performance Monitoring, Extended Fabric, Fabric Watch, and Trunking.
OPTIONAL SOFTWARE UPGRADES	• 10 GbE License for Extension or 10 Gbps 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)	• Enterprise Bundle (BR-DCX4SEB-01) • 10 GbE License for Extension or 10 Gbps FC (BRDCX10GE-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) • UltraScale ICL POD kit (BR-DCXICLPOD-01) • UltraScale Enterprise ICL (BR-DCX8ENTICL-01) • Backbone Encryption Performance Upgrade (BR-ENCPRF48-01) • Fabric Vision (BR-DCX4FV-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

GEN 5 FIBRE CHANNEL BACKBONES

	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-6510DC-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	• 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	• 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 • Organizations extending their metro connectivity over DWDM for FC SAN	• 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	• Within large data centers • At the enterprise edge • As a fabric core switch	• Various within midsize and small data centers • Core or edge switch • Within mainframe environments	• 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	• 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	• 2 hot-swappable, redundant integrated power supply/fan FRUs • Optional rack mount kits: fixed, or mid-mount	• 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, NPIV, in-flight encryption and compression, virtual fabrics, Adaptive Networking, and Server Application Optimization. Brocade Fabric Vision technology, including ClearLink diagnostics, Monitoring and Alerting Policy Suite (MAPS), Flow Vision, bottleneck detection, enhanced BB credit recovery, FEC, and critical diagnostic, and monitoring capabilities. Brocade 6520 with Enterprise Bundle includes Fabric Vision technology, Advanced Performance Monitoring, Extended Fabric, Fabric Watch, and Trunking.	Brocade Fabric OS, including Brocade advanced zoning, dynamic fabric provisioning, dynamic path selection, FSPF, NPIV, in-flight encryption and compression, virtual fabrics, Adaptive Networking, and Server Application Optimization. Brocade Fabric Vision technology, including ClearLink diagnostics, Monitoring and Alerting Policy Suite (MAPS), Flow Vision, bottleneck detection, enhanced BB credit recovery, FEC, and critical diagnostic, and monitoring capabilities. Brocade 6510 with Enterprise Bundle includes Fabric Vision technology, Advanced Performance Monitoring, Extended Fabric, Fabric Watch, and Trunking.	Brocade Fabric OS, including Brocade advanced zoning, dynamic fabric provisioning, dynamic path selection, FSPF, NPIV, in-flight encryption and compression, virtual fabrics, Adaptive Networking, and Server Application Optimization. Brocade Fabric Vision technology, including ClearLink diagnostics, Monitoring and Alerting Policy Suite (MAPS), Flow Vision, bottleneck detection, enhanced BB credit recovery, FEC, and critical diagnostic, and monitoring capabilities. Brocade 6505 with Enterprise Bundle includes Fabric Vision technology, Advanced Performance Monitoring, Extended Fabric, Fabric Watch, and Trunking.
OPTIONAL SOFTWARE UPGRADES	• Enterprise Bundle (BR-MENTEB4-01) includes FW, TRK, APM, FV, EF • 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) • 10 Gbps FC License (BR-MENT10G-01) • Fabric Vision (BR-MENTFV-01)	• Enterprise Bundle (BR-MIDREB-01) includes TRK, FV, APM, FW, EF • Advanced Performance Monitor (BR-3900PRF-02) • Extended Fabrics (BR-3900EXF-02) • Fabric Watch (BR-3900FWH-02) • FICON CUP (BR-MIDRCUP-01) • Integrated Routing (BR-MIDRIR-01) • ISL Trunking (BR-3900TRK-02) • 10 Gbps FC License (BR-MIDR10G-01) • Fabric Vision (BR-MIDRFV-01)	• Enterprise Bundle (BR-SMEDEB-01) includes TRK, FV, APM, FW, EF • Advanced Performance Monitor (BR-SMEDPRF-01) • Extended Fabrics (BR-SMEDEXF-01) • Fabric Watch (BR-SMEDFWH-01) • ISL Trunking (BR-SMEDTRK8-01) • Fabric Vision (BR-SMEDFV-01)
OTHER BASE PRODUCTS	EZSwitchSetup	EZSwitchSetup	EZSwitchSetup
OS SUPPORTED	Fabric OS 7.1	Fabric OS 7.x	Fabric OS 7.x

GEN 5 FIBRE CHANNEL SWITCHES

		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	• 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	• Midsize enterprises (excellent core backbone) • Large enterprises (excellent edge backbone) • Organizations with multi-tier fabrics with Brocade DCX in the core
	TYPICAL DEPLOYMENTS	• Within large enterprise-class data centers (global 1000 companies) • Mainframe environments	• 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	• 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	• 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	Brocade Fabric OS, including Brocade advanced zoning, dynamic fabric provisioning, dynamic path selection, FSPF, NPIV, virtual fabrics, Adaptive Networking, and Server Application Optimization. Enterprise Bundle, including Fabric Vision, advanced performance monitoring, extended fabric, fabric watch, and trunking. Enhanced Group Management (EGM).	Brocade Fabric OS, including Brocade advanced zoning, dynamic fabric provisioning, dynamic path selection, FSPF, NPIV, virtual fabrics, Adaptive Networking, and Server Application Optimization. Enterprise Bundle, including Fabric Vision, advanced performance monitoring, extended fabric, fabric watch, and trunking. Enhanced Group Management (EGM).
	OPTIONAL SOFTWARE UPGRADES	• 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)	• Enterprise Bundle (BR-DCX4SEB-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) • ICL kit, including one ICL (8 Link) license, and two cables (BR-DCX4S-1000) • Backbone Encryption Performance Upgrade (BR-ENCPRF48-01) • Fabric Vision (BR-DCX4FV-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 7840 EXTENSION 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-7840-0001 (24 x 16 Gbps SWL SFPs, 16 x 1/10 GbE, 2 x 40 GbE, includes Enterprise Bundle, Advanced Extension) (Note: 40GbE ports require WAN rate upgrade licenses to enable) BR-7840-0002 (24 x 16 Gbps LWL SFPs, 16 x 1/10 GbE, 2 x 40 GbE, includes Enterprise Bundle, Advanced Extension) (Note: 40GbE ports require WAN rate upgrade licenses to enable)
TARGET CUSTOMERS	• Small to medium-size businesses with a SAN • Cost-sensitive organizations • Organizations migrating from DAS to SAN		• Organizations requiring remote data replication for BC/DR • Organizations requiring backup from remote sites to centralized tape/VTL
TYPICAL DEPLOYMENTS	• Entry • Workgroup • Department • Edge		• Data centers and remote offices • Rack-based or standalone extension switch infrastructure • Direct-attached or fabric-attached disk and tape • Open systems and mainframe
PORTS	8, 16, 24		24 x 16 Gbps Fibre Channel ports for Storage connectivity 16 x 1/10 GbE and 2 x 40 GbE ports for WAN connectivity
PORT SPEED	1, 2, 4, 8 Gbps		1, 2, 4, 8, 16 Gbps (FC); 1, 10, 40 GbE (FCIP)
EXPANDABILITY	Ports on demand (8 ports)		Increasing WAN traffic rate limit to 10 Gbps (BR-LEXTSUG1-01) Increasing WAN traffic rate limit above 10 Gbps to system limit (BR-LEXTSUG2-01). Requires LEXTSUG1-01
FICON/CUP SUPPORT	No	**S W I T C H E S**	Yes
HOT CODE ACTIVATION	Yes		Yes
HARDWARE FEATURES	• Single fixed power supply • Fixed redundant fans • Singular switch FRU • Optional rack mount kits: fixed, slide, or mid-mount		• 2 hot-swappable, redundant integrated power supply/fan FRUs • SAN and storage bandwidth up to 384 Gbps • FCIP bandwidth up to 40 Gbps • Advanced hardware compression • Optional rack mount kits: 4-post or 2-post (mid-mount)

STANDARD BUNDLED SOFTWARE	Full fabric (all models except 310), Web tools, advanced zoning		• Fabric Vision, Extension Trunking, Adaptive Rate Limiting, Storage Optimized TCP, IPsec,
			  advanced compression, Open Systems Tape Pipelining (OSTP), FCIP Fast Write, ISL Trunking,
			  Adaptive Networking/QoS, and Extended Fabric.

OPTIONAL SOFTWARE UPGRADES	• Full Fabric Upgrade for BR-310
	  (BR-SMEDEPT-01)
	• Enterprise Bundle
	  (BR-SMEDEB-01)
	  includes TRK, FV, APM, FW, EF
	• Advanced Performance Monitor
	  (BR-SMEDPRF-01)
	• Extended Fabrics
	  (BR-SMEDEXF-01)
	• Fabric Watch
	  (BR-SMEDFWH-01)
	• ISL Trunking
	  (BR-SMEDTRK8-01)
	• Fabric Vision
	  (BR-SMEDFV-01)
			• Advanced Accelerator for FICON (BR-LEXTSAFI-01)
			• FICON CUP (BR-MIDRCUP-01)
			• Integrated Routing (BR-MIDRIR-01)

OTHER BASE PRODUCTS	Dynamic Path Selection, NPIV, Access Gateway Mode, EZSwitchSetup Wizard		Dynamic Path Selection, EZSwitchSetup Wizard
OS SUPPORTED	Fabric OS 6.x/7.x		Fabric OS 7.3.x

Vertical left label: **ETHERNET FABRIC DATA CENTER SWITCHES WITH NETWORK OS**

Vertical right label: **FABRIC EXTENSION**

	BROCADE 7800 EXTENSION SWITCH	BROCADE VDX 6730 SWITCH
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 6730-16-F/-R BR-VDX 6730-24-F/-R BR-VDX 6730-40-F/-R BR-VDX 6730-60-F/-R
TARGET CUSTOMERS	• Organizations requiring remote data replication for BC/DR • Organizations requiring backup from remote sites to centralized tape/VTL	• Organizations with LAN and SAN connectivity • Customers seeking server I/O consolidation
TYPICAL DEPLOYMENTS	• Data centers and remote offices • Rack-based or standalone extension switch infrastructure • Direct-attached or fabric-attached disk and tape • Open systems and mainframe	• 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	Up to 16 x 8 Gbps Fibre Channel ports for Storage connectivity Up to 6 x GbE ports for WAN connectivity	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), 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 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
HOT CODE ACTIVATION	Yes	No
HARDWARE FEATURES	• 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	• 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 compression, IPsec, Adaptive Networking/QoS.	• 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: • Advanced Extension: FCIP Trunking and Adaptive Rate Limiting (BR-EXTSAEX-01) • Advanced Accelerator for FICON (BR-EXTSAFI-01) • Enterprise Bundle (BR-EXTSEB-01) includes FV, TRK, APM, FW, EF • 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) • Fabric Vision (BR-EXTSFV-01)	**VDX 6730-24:** • VCS License (BR-VDX6730-24VCS-01) • FCoE License (XBR-VDXFCOE-01), includes 8x 8 Gbps FC SWL optics **VDX 6730-60:** • 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, EZSwitchSetup Wizard	Layer 2 Ethernet, Dynamic Path Selection, Security
OS SUPPORTED	Fabric OS 6.x/7.x	Network OS 2.x

	SAN PROFESSIONAL	SAN PROFESSIONAL PLUS	SAN ENTERPRISE	SAN PROFESSIONAL PLUS WITH IP	SAN ENTERPRISE WITH IP
PART NUMBERS	Free download	BR-NTWADV-SAN-PLU	BR-NTWADV-SAN-ENT	BR-NTWADV-BPLU	BR-NTWADV-BENT
MAXIMUM PORTS, FABRICS, DEVICES	Up to 300 SAN switch ports (~150 devices) and 2 SAN fabrics	Up to 2560 SAN switch ports and 100 SAN fabrics	Up to 15,000 SAN switch ports and 100 SAN fabrics	Up to 2560 SAN switch ports, 100 SAN fabrics, and 150 IP devices	Up to 15,000 SAN switch ports, 100 SAN fabrics, and 550 IP devices
FEATURES	A fully-featured 120-day evaluation version is also available for download from http://www.brocade.com/networkadvisor For full features list by product version and license type, refer to the Brocade Network Advisor Software Licensing Guide in Documentation folder				
OTHER LICENSE OPTIONS	N/A	• Upgrade to SAN Enterprise (BR-NTWADV-SAN-PLU-UPG), Minimum of one year support required • Add IP Base License (BR-NTWADV-ADD-IP-BASE) • Add SAN Professional Plus to IP Base (BR-NTWADV-ADD-SAN-PLU), Minimum of one year support required	• Add IP Base License (BR-NTWADV-ADD-IP-BASE) • Add SAN Enterprise to IP Base (BR-NTWADV-ADD-SAN-ENT), Minimum of one year support required	• BR-NTWADV-IP-100 • BR-NTWADV-IP-500 • BR-NTWADV-IP-1000 • BR-NTWADV-IP-2500 • BR-NTWADV-MPLS-10 • BR-NTWADV-MPLS-25 • BR-NTWADV-MPLS-50	• BR-NTWADV-IP-100 • BR-NTWADV-IP-500 • BR-NTWADV-IP-1000 • BR-NTWADV-IP-2500 • BR-NTWADV-MPLS-10 • BR-NTWADV-MPLS-25 • BR-NTWADV-MPLS-50
SYSTEM REQUIREMENTS	• Small: Intel Core 2 Duo, 2 GHz or equivalent. 8 GB RAM, 20 GB disk. • Medium: Intel Core 2 Duo Dual-CPU, 2.4 GHz or equivalent. 8 to 16BG RAM GB RAM, 60 GB disk. • Large: Intel Core 2 Duo Dual-CPU, 2.4 GHz or equivalent. 8 to 16BG RAM GB RAM, 80 GB disk.				
OS SUPPORTED	• Windows Server 2008 R2 Standard, Data Center, and Enterprise Editions • Windows Server 2012 Standard, Data Center, and Enterprise Editions • Windows 7 Enterprise • Windows 8 Enterprise • Red Hat Enterprise Linux 6.1, 6.2, 6.3 Adv • Oracle Enterprise Linux 6.1, 6.2, 6.3 • Guest VMs for all the above: VMware ESXi 5.0, KVM, and Microsoft Hyper-V (Hyper-V Server 2008 R2 SP1)				
SUPPORTED PLATFORMS AND HARDWARE	• Brocade ServerIron® ADX® Series Application Delivery Switches • Brocade DCX® Backbones • Brocade FastIron® SX Series • Brocade FastIron WS Series • Brocade ICX® switches • Brocade MLX® Series • Brocade MLXe Core Routers • Brocade NetIron® CER 2000 Series • Brocade SAN switches • Brocade VDX switches • Brocade Vyatta® vRouters • Emulex Adapters • QLogic Adapters (availability planned for Oct '14)				
UPGRADES	Brocade provides a non-disruptive path for upgrades from Brocade IronView® Network Manager (INM) or Brocade Data Center Fabric Manager (DCFM®).				
CONTACT	For additional ordering scenarios or questions, or BMI quoting instruction on support SKUs, please contact your Brocade representative.				

NETWORK MANAGEABILITY SOFTWARE

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