

BROCADE VDX 6730 SWITCH

DATA CENTER

HIGHLIGHTS

- Offers high-performance 10 GbE data center LAN ports and native Fibre Channel ports in a fixed configuration switch
- Simplifies network architectures and enables cloud computing by delivering Brocade VCS Fabric technology
- Provides industry-leading performance and ultra-low latency through wire-speed ports with 600 nanosecond port-to-port latency and automated hardware-based Inter-Switch Link (ISL) trunking
- Provides efficiently load-balanced multipathing at Layers 1, 2, and 3, with multiple Layer 3 gateways
- Simplifies virtualized server management by providing VM mobility with dynamic server profile configuration and migration
- Provides Ethernet storage connectivity for Fibre Channel over Ethernet (FCoE), iSCSI, and NAS
- Protects existing investments by bridging Fibre Channel SANs and Ethernet fabrics

The Brocade One® strategy helps simplify networking infrastructures through innovative technologies and solutions. Brocade VDX 6730 Switches support this strategy by simplifying network architecture while increasing network performance and resiliency with Ethernet fabrics.

Seeking better ways to build clouds and virtualized data centers, today's IT organizations are turning to high-performance networking solutions that increase flexibility through leading-edge technologies. The Brocade® VDX® 6730 Switch is a high-performance 10 Gigabit Ethernet (GbE) fixed configuration switch with LAN and native Fibre Channel ports that supports the most demanding business applications. It is specifically designed to improve network utilization, maximize application availability, increase scalability, and dramatically simplify network architecture in virtualized data centers. The Brocade VDX 6730 with Brocade VCS® Fabric technology is an ideal platform for Top-of-Rack (ToR) fabric deployments requiring native Fibre Channel connectivity (see Figure 1).

The Brocade VDX 6730 connects to Fibre Channel Storage Area Networks (SANs) in addition to Fibre Channel over Ethernet (FCoE), iSCSI, and NAS storage, providing unified Ethernet storage connectivity

options. It is available in two models—the 2U Brocade VDX 6730-76 with 60 10 GbE LAN ports and 16 8 Gbps native Fibre Channel ports, and the 1U Brocade VDX 6730-32 with 24 10 GbE LAN ports and eight 8 Gbps native Fibre Channel ports.

AN INTELLIGENT FOUNDATION FOR CLOUD COMPUTING

Brocade VCS Fabric technology is an innovative technology that enables organizations to build high-performance, cloud-optimized data centers while preserving existing network designs and cabling, and gaining active-active server connections. For scale-out fabric architectures, Brocade VCS Fabric technology allows organizations to flatten network designs, provide Virtual Machine (VM) mobility without network reconfiguration, and manage the entire fabric more efficiently. Learn more about Brocade VCS Fabric technology at www.brocade.com/vcs.



BROCADE

Unique VCS Fabric Features for High-Performance Data Centers

The Brocade VDX 6730 with Brocade VCS Fabric technology provides the following unique features for building access-layer fabrics optimized for the needs of modern workloads:

- **Elastic, self-healing fabrics:** Brocade VCS fabrics are self-forming and self-healing, providing a highly resilient, operationally scalable foundation for very large or dynamic cloud deployments. Multi-node fabrics can be managed as a single logical element, and fabrics can be deployed and easily re-deployed in a variety of configurations optimized to the needs of particular workloads.
- **Efficient multipathing across Layers 1-3:** With Network OS 3.0, Brocade VCS Fabric technology delivers efficiently load-balanced multipathing at Layers 1-3, with multiple Layer 3 gateways. The result is very elastic Layer 2 and Layer 3 domains with more effective link utilization and, ultimately, a more flexible, agile network that helps organizations rapidly adapt to changing business conditions.
- **Lowest power consumption:** The Brocade VDX 6730 provides the industry's lowest power consumption in a port-dense, 2U form factor—imperative in today's data centers.
- **Scale-out solution for virtualized data centers:** VCS fabrics enable dynamic, large-scale server virtualization deployments in private and public clouds with proven zero-touch VM discovery, network configuration, and VM mobility.
- **Local switching:** The Brocade VDX 6730 delivers high performance for intra-rack traffic in virtualized environments, providing ultra-low latency of 600 nanoseconds for the same ASIC on the switch. This helps organizations design a network with no oversubscription for deterministic network performance and improved application response times, making the Brocade VDX 6730 ideal for performance-demanding environments.

ETHERNET STORAGE CONNECTIVITY

The Brocade VDX 6730 connects to FCoE, iSCSI, and NAS storage, and includes Fibre Channel ports for connectivity to Brocade Fibre Channel SAN fabrics. The Brocade VDX 6730 helps protect existing SAN

investments by bridging SAN fabrics and Ethernet fabrics. The native Fibre channel ports and FCoE can be turned on with an add-on software license.

Server and Storage Virtualization Automation Support

Brocade VCS Fabric technology offers unique features to support virtualized server and storage environments. Brocade VM-aware network automation, for example, provides secure connectivity and full visibility to virtualized server resources with dynamic learning and activation of port profiles. By communicating directly with VMware vCenter, it eliminates manual configuration of port profiles and supports VM mobility across VCS fabrics within a data center.

During a VM migration, network switch ports must be dynamically configured to ensure that the VM traffic experiences consistent policies and configurations (see Figure 2). The Brocade Automatic Migration of Port Profiles (AMPP) feature enables a seamless migration. Port profiles and MAC address mapping are created on any switch in the fabric. This mapping provides the logical flow for traffic from the source port to the destination port. As a VM migrates, the destination port in the fabric learns of the MAC move and automatically activates the port profile configuration.

In addition to providing protection against VM MAC spoofing, VM-aware network automation and AMPP enable organizations to fully align virtual server and network infrastructure resources, and realize the full benefits of server virtualization.

PROACTIVE MONITORING

Brocade Fabric Watch is an innovative switch health monitoring feature available on the Brocade VDX 6730. Fabric Watch monitors the health of certain switch components and, based on the threshold set, declares each component as marginal or down.

EASE OF USE AUGMENTED BY BROCADE NETWORK ADVISOR

Brocade Network Advisor is an easy-to-use network management platform for advanced management of Brocade VCS fabrics and Brocade VDX switches across the entire network life cycle. Organizations can use Brocade Network Advisor to manage a VCS fabric as a single entity or to drill down to individual Brocade VDX

switches for fault, inventory, or performance management—and to manage multiple VCS fabrics in parallel. More important, Brocade Network Advisor manages both SAN and IP networks, and can be used to do zoning across Brocade VDX switches and Fibre Channel SANs.

Brocade Network Advisor also provides simplified management of AMPP configurations, and integrity checks can be performed across physical Brocade VDX configurations, either in the same fabric or across different VCS fabrics. In addition, Brocade Network Advisor enables VM-level monitoring and can help identify top-talker applications leveraging sFlow across the fabric. Finally, Brocade Network Advisor provides VCS fabric diagnostics, including visualization of VCS fabric traffic paths and network latency monitoring that enables fault isolation via hop-by-hop inspection. For details, visit www.brocade.com/management.

BROCADE GLOBAL SERVICES

Brocade Global Services has the expertise to help organizations build scalable, efficient cloud infrastructures. Leveraging 15 years of expertise in storage, networking, and virtualization, Brocade Global Services delivers world-class professional services, technical support, and education services, enabling organizations to maximize their Brocade investments, accelerate new technology deployments, and optimize the performance of networking infrastructures.

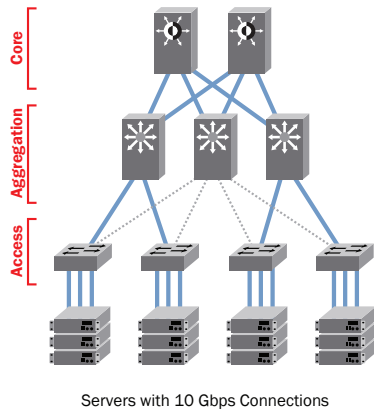
CLOUD-OPTIMIZED NETWORK ACQUISITION

Brocade helps organizations easily address their information technology requirements by offering flexible network acquisition and support alternatives to meet their financial needs. Organizations can select from purchase, lease, and Brocade Network Subscription options to align network acquisition with their unique capital requirements and risk profiles. To learn more, visit www.Brocade.com/CapitalSolutions.

MAXIMIZING INVESTMENTS

To help optimize technology investments, Brocade and its partners offer complete solutions that include professional services, technical support, and education. For more information, contact a Brocade sales partner or visit www.brocade.com.

Classic Hierarchical Ethernet Architecture



Ethernet Fabric Architecture

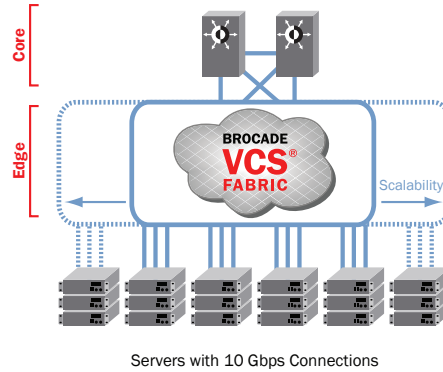


Figure 1.

Compared to classic Ethernet architectures, Ethernet fabrics allow all paths to be active and provide greater scalability—while reducing management complexity.

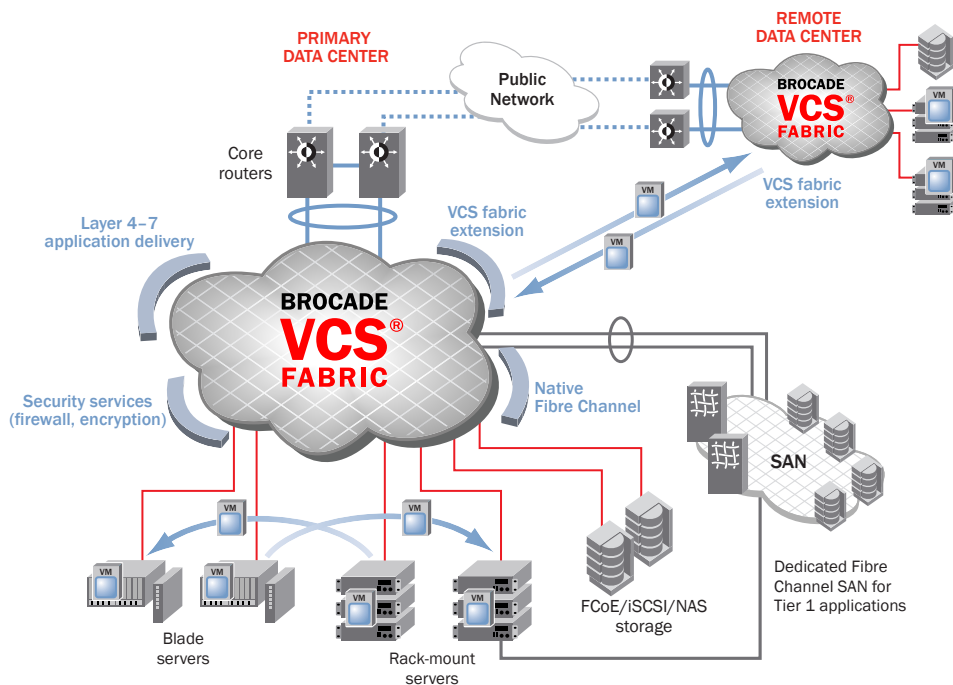


Figure 2.

Brocade VCS Fabric technology simplifies the network architecture, enables unified storage connectivity, improves VM mobility, and allows the seamless insertion of services.

WHAT IS AN ETHERNET FABRIC?

Compared to classic hierarchical Ethernet architectures, Ethernet fabrics provide higher levels of performance, utilization, availability, and simplicity. They are designed to be:

- **Flatter:** Eliminates the need for Spanning Tree Protocol (STP), while being completely interoperable with existing Ethernet networks
- **Flexible:** Can be architected in any topology to best meet the needs of any variety of workloads
- **Resilient:** Uses multiple “least cost” paths for high performance and high reliability
- **Elastic:** Scales easily up and down as needed

More advanced Ethernet fabrics borrow further from Fibre Channel fabric constructs:

- They are self-forming and function as a single logical entity, in which all switches automatically know about each other and all connected physical and logical devices.
- Management can then be domain-based rather than device-based, and defined by policy rather than repetitive procedures.
- These features, along with virtualization-specific enhancements, make it easier to explicitly address the challenges of VM automation within the network, thereby facilitating better IT automation.
- Protocol convergence, such as Fibre Channel over Ethernet (FCoE), may also be a feature, intended as a means of better bridging LAN and Storage Area Network (SAN) traffic.

Learn more about Ethernet fabrics at www.brocade.com/ethernet-fabric.

BROCADE VDX 6730 FEATURE OVERVIEW

	Brocade VDX 6730-32	Brocade VDX 6730-76
Switching LAN bandwidth (data rate, full duplex)	480 Gbps for Ethernet ports	1200 Gbps for Ethernet ports
Fibre Channel ports	Eight 8 Gbps ports	Sixteen 8 Gbps ports
Port-to-port latency within port group	600 nanoseconds within 10-port group	600 nanoseconds within 10-port group
Form factor	1U	2U
Dimensions and weight	Width: 42.8 cm (16.9 in.)	Width: 43.0 cm (17.0 in.)
	Height: 4.37 cm (1.7 in.)	Height: 8.7 cm (3.5 in.)
	Depth: 38.4 cm (15.1 in.)	Depth: 43.2 cm (17.0 in.)
	Weight: 7.3 kg (16.3 lb)	Weight: 15.3 kg (33.9 lb)
1/10 GbE SFP+ ports	24	60
Ports on Demand (PoD) increments	16, 24	40, 50, 60
Power supplies	Two hot-swappable, load-sharing	Two hot-swappable, load-sharing
Cooling fans	N+1 redundant, integrated into power supplies	Three independent fans in a N+1 redundant configuration

BROCADE VDX 6730 SPECIFICATIONS

Scalability Information ¹	
Connector options	1 GbE copper SFP option 1000Base-SX and 1000Base-LX 10 Gbps SFP+ options: 1/3/5 m direct-attached copper (Twinax) 10 GbE SR and 10 GbE LR 8 Gbps Fibre Channel optics: 8 Gbps Fibre Channel SWL, 8 Gbps Fibre Channel LWL 10 km, 8 Gbps Fibre Channel ELWL 25 km Out-of-band Ethernet management: RJ-45 (fixed) Remote lights-out management: 10/100/1000 BaseT Ethernet Console Management: RJ45 to RS-232 (fixed) Firmware and diagnostic: USB
Maximum VLANs	4096
Maximum MAC addresses	32,000
Maximum port profiles (AMPP)	256
Maximum Layer 2 multicast groups	2000
Maximum Spanning Tree instances	32
Maximum per-port priority pause level	8
Maximum LAG groups in a VCS fabric	512
Maximum members in a standard LAG	16
Maximum MAC addresses in a VCS fabric	30,000
Maximum switches in a VCS fabric	24
Maximum ECMP paths in a VCS fabric	8
Maximum trunk members for VCS fabric ports	8
Maximum switches across which a vLAG can span	4
Maximum members in a vLAG	32
Maximum jumbo frame size	9208 bytes
Queues per port	8
DCB Priority Flow Control (PFC) classes	8
Maximum Layer 2 ACLs	1000
Maximum Layer 3 ACLs	1000
Maximum ARP entries	12,000
Maximum IPv4 routes	2000
Operating system	Brocade Network OS

¹ Please refer to the latest version of the release notes for the most up-to-date scalability numbers.

Layer 2 switching features	<ul style="list-style-type: none">• MAC Learning and Aging• Static MAC Configuration• Link Aggregation Control Protocol (LACP) IEEE 802.3ad/802.1AX• Virtual Local Area Networks (VLANs)• VLAN Encapsulation IEEE 802.1Q• Rapid Spanning Tree Protocol (RSTP) IEEE 802.1w• Multiple Spanning Tree Protocol (MSTP) IEEE 802.1s• STP IEEE 802.1D	<ul style="list-style-type: none">• Per-VLAN Spanning Tree (PVST+ /PVRST+)• STP PortFast and PortFast BPDU Guard• STP Root Guard• Layer 2 Access Control Lists (ACLs)• IGMP v1/v2 Snooping• Pause Frames IEEE 802.3x
Layer 3 switching features	<ul style="list-style-type: none">• OSPF• VRRP and VRRP-E support	<ul style="list-style-type: none">• Static routes
Brocade VCS Fabric technology features	<ul style="list-style-type: none">• Automatic Fabric Formation• Distributed Fabric Services• Transparent LAN Services• Virtual Link Aggregation Group (vLAG) spanning multiple physical switches• Switch Beaconing• Distributed Configuration Management	<ul style="list-style-type: none">• Transparent Interconnection of Lots of Links (TRILL)• Equal Cost Multi-Path (ECMP)• Automatic Migration of Port Profiles (AMPP)• VM-aware network automation
DCB features	<ul style="list-style-type: none">• Priority-based Flow Control (PFC) IEEE 802.1Qbb• Enhanced Transmission Selection (ETS) IEEE 802.1Qaz	<ul style="list-style-type: none">• Data Center Bridging eXchange (DCBX)• DCBX Application Type-Length-Value (TLV) for FCoE and iSCSI
FCoE features	<ul style="list-style-type: none">• Multihop Fibre Channel over Ethernet (FCoE); requires Brocade VCS Fabric technology• FC-BB5 compliant Fibre Channel Forwarder (FCF)• Native FCoE forwarding• End-to-end FCoE (initiator to target)	<ul style="list-style-type: none">• FCoE Initialization Protocol (FIP) v1 support for FCoE devices login and initialization• Name Server-based zoning• Supports connectivity to FIP Snooping Bridge (FSB) device
Fibre Channel features	<ul style="list-style-type: none">• Name Server-based zoning• FC authentication	<ul style="list-style-type: none">• Bridging to Fibre Channel SANs
Quality of Service (QoS)	<ul style="list-style-type: none">• Eight priority levels for QoS• Class of Service (CoS) IEEE 802.1p• DSCP Trust• DSCP to Traffic Class Mutation• Random Early Discard	<ul style="list-style-type: none">• Per-port QoS configuration• Scheduling: Strict Priority (SP), Shaped Deficit Weighted Round-Robin (SDWRR)<ul style="list-style-type: none">- DSCP to CoS Mutation- DSCP to DSCP Mutation
Switch health monitoring	<ul style="list-style-type: none">• Fabric Watch monitoring and notification	
Management		
Management and control	<ul style="list-style-type: none">• IPv4/IPv6 management• Industry-standard Command Line Interface (CLI)• Remote lights out management (future update)• In-band management (standalone mode)• Link Layer Discovery Protocol (LLDP) IEEE 802.1AB• MIB II RFC 1213 MIB• Switch Beaconing• Switched Port Analyzer (SPAN)	<ul style="list-style-type: none">• Telnet• SNMP v1, v2C, v3• sFlow RFC 3176• Out-of-band management• RMON-1, RMON-2• NTP• Management Access Control Lists (ACLs)• Role-Based Access Control (RBAC)
Security	<ul style="list-style-type: none">• Port-based Network Access Control IEEE 802.1X• RADIUS• TACACS+• Secure Shell (SSHv2)• BPDU Guard• BPDU Drop• Lightweight Directory Access Protocol (LDAP)• Secure Control Protocol	
Mechanical		
Enclosure Brocade VDX 6730-32	Front-to-rear airflow; power from back Rear-to-front airflow; power from back 1U System weight: 16.3 lb with two power supply FRUs, without transceivers	
Enclosure Brocade VDX 6730-76	Front-to-rear airflow; power from back Rear-to-front airflow; power from back 2U System weight: 33.9 lb with two power supply FRUs, without transceivers	

BROCADE VDX 6730 SPECIFICATIONS (CONTINUED)

Environmental		
Temperature	Operating: 0°C to 40°C (32°F to 104°F)	
	Non-operating and storage: –25°C to 70°C (–13°F to 158°F)	
Humidity	Operating: 10% to 85% non-condensing	
	Non-operating and storage: 10% to 90% non-condensing	
Altitude	Operating: Up to 3000 meters (9842 feet)	
	Non-operating and storage: Up to 12 kilometers (39,370 feet)	
Shock	Operating: 20 g, 6 ms half-sine	
	Non-operating and storage: Half-sine, 33 g 11 ms, 3/eg Axis	
Vibration	Operating: 0.5 g sine, 0.4 grms random, 5 to 500 Hz	
	Non-operating and storage: 2.0 g sine, 1.1 grms random, 5 to 500 Hz	
Airflow	Brocade VDX 6730-32	
	Maximum: 53 CFM	
	Nominal: 35 CFM	
	Brocade VDX 6730-76	
	Maximum: 115 CFM	
	Nominal: 76 CFM	
Heat dissipation	447 BTU/hr (32-port switch)	
	1194 BTU/hr (76-port switch)	
Power		
Power supplies	Two internal, redundant, field-replaceable, load-sharing AC power supplies	
Power inlet	C13	
Input voltage	100 V to 240 V ~5 A to 2.5 A	
Input line frequency	47 to 63 Hz	
Inrush current	50 amps max	
Maximum current	4 amps max (32-port switch)	
	7 amps max (76-port switch)	
Maximum power consumption Brocade VDX 6730-32	140 watts	
Maximum power consumption Brocade VDX 6730-76	350 watts	
Safety Compliance		
• Bi-Nat UL/CSA 60950-1 Second Edition	• EN 60950-1 Second Edition	• GB4943-2001 and GB9254-1998
• CAN/CSA-C22.2 No. 60950-1 Second Edition	• IEC 60950-1 Second Edition	• CNS 14336(94)
EMC		
• FCC Class A	• CE	• GOST
• ICES A	• C	• KC Class A
• VCCI-Class A	• BSMI	• CCC
Immunity		
• ANSI C63.4	• CISPR22	• KN22 and KN24
• ICES-003 Class A	• AS/NZS CISPR22	• GB17625.1-2003
• CISPR22 and JEIDA (Harmonics)	• CNS 13438(95)	
• EN55022 Class A and EN55024	• 51318.22-99 and 51318.24-99	
Environmental Regulatory Compliance		
RoHS-6 (with lead exemption) Directive 2002/95/EC		
Standards Compliance		
Brocade VDX 6730 products conform to the following Ethernet standards:		
• IEEE 802.1D Spanning Tree Protocol	• IEEE 802.1v VLAN Classification by Protocol and Port	
• IEEE 802.1s Multiple Spanning Tree	• IEEE 802.1AB Link Layer Discovery Protocol (LLDP)	
• IEEE 802.1w Rapid reconfiguration of Spanning Tree Protocol	• IEEE 802.3x Flow Control (Pause Frames)	
• IEEE 802.3ad Link Aggregation with LACP	• IEEE 802.3ab 1000BASE-T	
• IEEE 802.3ae 10G Ethernet	• IEEE 802.3z 1000BASE-X	
• IEEE 802.1Q VLAN Tagging		
• IEEE 802.1p Class of Service Prioritization and Tagging		

The following draft versions of the Data Center Bridging (DCB) and Fibre Channel over Ethernet (FCoE) standards are also supported on the Brocade VDX 6730:

- IEEE 802.1Qbb Priority-based Flow Control
- IEEE 802.1Qaz Enhanced Transmission Selection
- IEEE 802.1 DCB Capability Exchange Protocol (Proposed under the DCB Task Group of IEEE 802.1 Working Group)
- FC-BB-5 FCoE (Rev 2.0)

RFC Support

RFC 768	User Datagram Protocol (UDP)
RFC 783	TFTP Protocol (revision 2)
RFC 791	Internet Protocol (IP)
RFC 792	Internet Control Message Protocol (ICMP)
RFC 793	Transmission Control Protocol (TCP)
RFC 826	ARP
RFC 854	Telnet Protocol Specification
RFC 894	A Standard for the Transmission of IP Datagram over Ethernet Networks
RFC 1027	Using ARP to Implement Transparent Subnet Gateways (Proxy ARP)
RFC 1112	IGMP v1
RFC 1157	Simple Network Management Protocol (SNMP) v1 and v2
RFC 1492	TACACS+
RFC 1519	Classless Interdomain Routing (CIDR)
RFC 1584	Multicast Extensions to OSPF
RFC 1765	OSPF Database Overflow
RFC 1812	Requirements for IP Version 4 Routers
RFC 2068	HTTP Server
RFC 2131	Dynamic Host Configuration Protocol (DHCP)
RFC 2154	OSPF with Digital Signatures (Password, MD-5)
RFC 2236	IGMP v2
RFC 2267	Network Ingress Filtering
RFC 2328	OSPF v2 (edge mode)
RFC 3768	VRRP
RFC 2370	OSPF Opaque Link-State Advertisement (LSA) Option—Partial Support
RFC 2474	Definition of the Differentiated Services Field in the IPv4 and IPv6 Headers
RFC 2571	An Architecture for Describing SNMP Management Frameworks
RFC 2865	Remote Authentication Dial In User Service (RADIUS)
RFC 3101	The OSPF Not-So-Stubby Area (NSSA) Option
RFC 3176	sFLOW
RFC 3137	OSPF Stub Router Advertisement
RFC 4510	Lightweight Directory Access Protocol (LDAP): Technical Specification Road Map
RFC 4292	IP Forwarding MIB
RFC 4293	Management Information Base for the Internet Protocol (IP)
RFC 3411	An Architecture for Describing SNMP Frameworks
RFC 3412	Message Processing and Dispatching for the SNMP
RFC 3413	Simple Network Management Protocol (SNMP) Applications
RFC 2460	Internet Protocol, Version 6 (v6) Specification (on management interface)
RFC 2464	Transmission of IPv6 Packets over Ethernet Networks (on management interface)
RFC 2474	Definition of the Differentiated Services Field (DS Field) in the IPv4 and IPv6 Headers (only for IPv4)

BROCADE VDX 6730 ORDERING INFORMATION

SKU	Description	Comments
BR-VDX6730-16-F	Brocade VDX 6730, 16P SFP+, AC, non-port side exhaust airflow	Base SKU
BR-VDX6730-16-R	Brocade VDX 6730, 16P SFP+, AC, port side exhaust airflow	Base SKU
BR-VDX6730-24-F	Brocade VDX 6730, 24P SFP+, AC, non-port side exhaust airflow	Base SKU
BR-VDX6730-24-R	Brocade VDX 6730, 24P SFP+, AC, port side exhaust airflow	Base SKU
BR-VDX6730-40-F	Brocade VDX 6730, 40P SFP+, AC, non-port side exhaust airflow	Base SKU
BR-VDX6730-40-R	Brocade VDX 6730, 40P SFP+, AC, port side exhaust airflow	Base SKU
BR-VDX6730-60-F	Brocade VDX 6730, 60P SFP+, AC, non-port side exhaust airflow	Base SKU
BR-VDX6730-60-R	Brocade VDX 6730, 60P SFP+, AC, port side exhaust airflow	Base SKU
BR-VDX6730-24POD-01	8-port PoD license for Brocade VDX 6730-32	Software orderable
BR-VDX6730-60POD-01	10-port PoD license for Brocade VDX 6730-76	Software orderable
BR-VDX6730-24VCS-01	VCS software license for Brocade VDX 6730-16, Brocade VDX 6730-24	Software orderable
BR-VDX6730-60VCS-01	VCS software license for Brocade VDX 6730-40, Brocade VDX 6730-60	Software orderable
XBR-250WPSAC-F	FRU 250W ACPS/FAN, non-port side exhaust airflow	FRU
XBR-250WPSAC-R	FRU 250W ACPS/FAN, port side exhaust airflow	FRU
XBR-500WPSAC-F	FRU 500W ACPS, non-port side exhaust airflow	FRU
XBR-500WPSAC-R	FRU 500W ACPS, port side exhaust airflow	FRU
XBR-FAN-80-F	FRU FAN, 80MM, non-port side exhaust airflow	FRU
XBR-FAN-80-R	FRU FAN, 80MM, port side exhaust airflow	FRU
XBR-VDX6730-16-F	Brocade VDX 6730, 16P SFP+, FRU, AC, non-port side exhaust airflow	FRU
XBR-VDX6730-16-R	Brocade VDX 6730, 16P SFP+, FRU, AC, port side exhaust airflow	FRU
XBR-VDX6730-40-F	Brocade VDX 6730, 40P SFP+, FRU, AC, non-port side exhaust airflow	FRU
XBR-VDX6730-40-R	Brocade VDX 6730, 40P SFP+, FRU, AC, port side exhaust airflow	FRU
XBR-VDXFCOE-01	Converged service FRU for Brocade VDX 6730-32, Brocade VDX 6730-16	Software orderable
XBR-VDXFCOE-02	Converged service FRU for Brocade VDX 6730-40, Brocade VDX 6730-60	Software orderable
XBR-000190 (1-pack)	1 GbE copper	Optics
E1MG-SX-OM (1-pack)	1000Base-SX	Optics
E1MG-SX-OM-8 (8-pack)		
E1MG-LX-OM (1-pack)	1000Base-LX	Optics
E1MG-LX-OM-8 (8-pack)		
10G-SFPP-SR (1-pack)	10 Gbps SR	Optics
10G-SFPP-SR-8 (8-pack)		
10G-SFPP-LR (1-pack)	10 Gbps LR	Optics
10G-SFPP-LR-8 (8-pack)		
10G-SFPP-TWX-0101 (1-pack)	1 m Twinax copper cable	Optics
10G-SFPP-TWX-0108 (8-pack)		
10G-SFPP-TWX-0301 (1-pack)	3 m Twinax copper cable	Optics
10G-SFPP-TWX-0308 (8-pack)		
10G-SFPP-TWX-0501 (1-pack)	5 m Twinax copper cable	Optics
10G-SFPP-TWX-0508 (8-pack)		
XBR-000163 (1-pack)	8 Gbps Fibre Channel SWL	Optics
XBR-000164 (8-pack)		
XBR-000153 (1-pack)	8 Gbps Fibre Channel LWL – 10 km	Optics
XBR-000172 (8-pack)		
XBR-000174 (1-pack)	8 Gbps Fibre Channel ELWL – 25 km	Optics

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