

Datasheet Brocade VDX 6740/6740T/6740T-1G Switches

Data centers continue to evolve, creating a need for an infrastructure that can support growth in Virtual Machines (VMs), distributed applications, and data, as well as the transition to cloud-based computing–without compromising performance. However, traditional data centers typically use inflexible, three-tier network designs that cannot efficiently manage east-west traffic or deliver the bandwidth needed to support virtualization and new service delivery. In addition, with the movement toward cloud computing, the importance of deploying a flexible and responsive network infrastructure only grows.

To support the new direction of IT service delivery, data center operators need networks that are high performance, operationally efficient, automated, and elastic. The ideal network will be easy to manage and scale to meet demand as well as adapt to future requirements.

BROCADE VDX 6740 Switch

The Brocade® VDX® 6740 offers 48 10 Gigabit Ethernet (GbE) SFP+ ports and four 40 GbE independent 10 GbE SFP+ ports, providing an additional 16 10 GbE SFP+ ports. In addition, the switch features low power consumption, consuming 2 watts per 10 GbE port.

BROCADE VDX 6740T Switch

The Brocade VDX 6740T offers 48 10 GbE 10BASE-T ports and four 40 GbE QSFP+ ports. Each can be broken out into four independent 10 GbE SFP+ ports, providing an additional 16 10 GbE SFP+ ports. The switch also features low power consumption, consuming less than 5 watts per 10 GbE port.

BROCADE VDX 6740T-1G Switch

The Brocade VDX 6740T-1G offers 48 1000BASE-T ports and two 40 GbE QSFP+ ports. Each 40 GbE port can be broken out into four independent 10 GbE SFP+ ports, providing an additional eight 10 GbE SFP+ ports for uplink. All 48 1000BASE-T ports can be upgraded to 48 10GBASE-T ports via a Capacity on Demand (CoD) software license. Two 40 GbE ports are enabled as part of the base license. The additional two 40 GbE ports can be upgraded via the Ports on Demand (PoD) software license.

Highlights

- Delivers high performance and reduces network congestion with 10 Gigabit Ethernet (GbE) ports, low latency, and 24 MB deep buffers
- Improves capacity with the ability to create up to a 160 GbE uplink with Brocade ISL Trunking
- Manages an entire Brocade VCS fabric as a single switch with Brocade VCS Logical Chassis
- Provides efficiently load-balanced multipathing at Layers 1, 2, and 3, including multiple Layer 3 gateways
- Simplifies Virtual Machine (VM) mobility and management with automated, dynamic port profile configuration and migration
- Supports Software-Defined Networking (SDN) technologies within data, control, and management planes





Green Product

This product cleared our company's original evaluation standard which followed global environmental measures. Both the Brocade VDX 6740, 6740T, and 6740T-1G are Ethernet fabric Top-of-Rack (ToR) switches that support a demanding data center environment. Access ports are positioned to allow for easy server connectivity and to simplify cabling. With a choice of front-to-back or back-to-front airflow, these switches are ideal for ToR deployments connecting servers, storage, and other switches, as well as for providing compatibility for either hot aisle or cold aisle data center designs. With dual-speed functionality, each 10 GbE port also supports 1 GbE connections, providing the flexibility needed to support a mixed environment as data centers transition to higher densities.

Brocade VDX 6740, 6740T, and 6740T-1G Switches provide the advanced feature set that data centers require while delivering the high performance and low latency virtualized environments demand. Together with Brocade VCS® Fabric technology, these switches can simplify network design and operations for a more automated and efficient network, offer the flexibility needed to scale networks, and deliver the intelligence to more effectively manage VM mobility and rack density, as well as provide a cloud-ready infrastructure that helps transform legacy data centers.

HIGH PERFORMANCE FOR DATA CENTERS

As data centers virtualize more of their servers and VM density per server increases, organizations will require higher bandwidth connectivity to support the explosion of data and application processing. With 10 GbE connections, Brocade VDX 6740, 6740T, and 6740T-1G Switches deliver the high performance computing needed to keep up with the demands of a virtualized data center, allowing organizations to reduce network congestion, improve application performance, and meet the capacity required by 10 GbE servers. The 40 GbE uplinks can easily aggregate high-bandwidth traffic and reduce bottlenecks that occur when aggregating multiple 10 GbE connections, keeping data center networks working at peak performance.

The switches also help maximize network utilization with hardware-based Brocade ISL Trunking. Organizations can create an 80 GbE trunk by utilizing two 40 GbE ports, or a 160 GbE trunk with 16 10 GbE ports. The Brocade trunk is automatically formed between two Brocade VDX 6740, 6740T, and 6740T-1G Switches when they are linked together, allowing traffic to be equally distributed among all ports. This increases link efficiency and limits traffic disruptions, especially during high traffic times.

ADVANCED DESIGN DELIVERS LOW LATENCY AND DEEP BUFFER

The movement toward server virtualization has increased the quantity of VMs, data, and applications that require processing. This increase in traffic can create performance and latency issues. The Brocade VDX 6740, 6740T, and 6740T-1G deliver very low latency through wire-speed ports with 850 ns and 3 µs (respectively) any-port-to-any port latency. In addition, the switches deliver an industryleading 24 MB deep buffer per switch. This provides the buffering capacity to handle increases in traffic, especially during peak times when ports are congested, allowing traffic to be distributed across the ports. The Brocade VDX 6740, 6740T, and 6740T-1G feature a single ASIC design, instead of multiple ASIC designs commonly found on other switches, further improving performance and reducing latency since all ports can communicate via one ASIC.

BROCADE VCS FABRIC TECHNOLOGY

Brocade VCS fabrics running on the Brocade VDX family of switches allow organizations to create data center networks that just work. Together, these technologies provide unmatched automation, efficiency, and elasticity in support of the most demanding workloads, such as rich media and missioncritical applications, particularly in highly dynamic cloud environments.

UNMATCHED SIMPLICITY AND AUTOMATION

Brocade VDX 6740, 6740T, 6740T-1G Switches, in conjunction with Brocade VCS Fabric technology, streamline configuration and management, maximize efficiency, and create a more automated and reliable network, especially in highly virtualized data centers. Brocade VCS Fabric technology delivers unmatched automation, efficiency, and resilience compared to traditional architectures and competitive fabric offerings. It delivers higher throughput and lower latency for the server-to-server (east-west) traffic patterns that are now dominating virtualized data centers. In changing how networks are architected, VCS fabrics deliver many benefits that fit the needs of evolving data centers.

Fast, Easy Deployment and Configuration

Brocade VCS fabric helps streamline network operations and speed deployment with embedded features that enable automatic configuration and management. These features include:

- Brocade VCS Logical Chassis: Brocade VCS Logical Chassis enables organizations to manage an entire VCS fabric as a single switch, upgrade software across the fabric with one command, and centralize monitoring and troubleshooting to enhance the overall availability and reliability of the network. The single point of management eliminates the need to manually configure and manage each switch, simplifying management, lowering operational costs, and reducing configuration errors. In addition, it offers the ability to push software upgrades across the fabric with a single command, accelerating deployment. VCS Logical Chassis also provides a single view of the fabric for easy monitoring and troubleshooting that minimizes time to repair network issues.
- Self-forming and self-healing fabric: Configuration is simplified with self-forming fabrics. As additional switches are added, they inherit the configuration of the fabric, allowing the network to scale out with ease. Configuration and device information is always shared among all switches, allowing fabric nodes to be added or removed, and physical or virtual servers to be relocated—without the fabric requiring manual reconfiguration. In addition, fabrics are self-healing, increasing network resiliency. The fabric redirects traffic in case a link fails, helping to ensure uninterrupted traffic flow and prevent data loss.
- Auto Fabric Provisioning: This capability allows organizations to automate the configuration of new switches added to the fabric. They can simply plug in a switch to the fabric, and it automatically downloads the right software image from the server. No manual configuration is required, reducing staging and deployment time.
 - Classic Hierarchical Ethernet Architecture

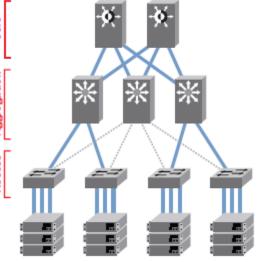
 A reliable foundation for software-defined networks: The Brocade VDX 6740, 6740T, and 6740T-1G are hardware-enabled with the flexibility to support emerging SDN protocols, including VXLAN/NVGRE. Logical chassis technology and northbound APIs can provide operationally scalable management and access to emerging management frameworks such as OpenStack.

Optimized East-West Traffic

Traditional data centers are architected with a rigid, three-tier tree topology optimized for the north-south traffic flow of client-server computing environments, compromising performance, increasing latency, and creating bottlenecks. With the increased prevalence of virtualization and distributed applications, data center network traffic is now predominantly east-west or server-server. The VCS fabric was specifically designed and optimized to address these traffic patterns by moving traffic through any of the active paths and avoiding the multiple hops required in other tiered topologies.

Deliver Multi-Tenant Cloud Data Centers

In addition, public and private cloud providers need to deploy and support distributed virtualized workloads quickly, securely, and in a scalable manner on a per-tenant basis. Traditional VLANs can be used for this purpose up to a point, but limitations on VLAN ID scale and the complexity of configuring large numbers of VLANs restrict their usefulness in larger data centers. The Virtual Fabric feature of Brocade VCS Fabric technology is designed to address the scalability restrictions of traditional VLANs used for multi-tenant segmentation. It provides native secure multi-tenant support for both physical and virtual application deployments. Managed centrally through Brocade VCS Logical Chassis, the Virtual Fabric feature simplifies and accelerates application deployment, and ensures policy consistency for each tenant regardless of how application components are distributed across the data center. VXLAN and VRF Lite are other options for network segmentation.



Servers with 10 Gbps Connections

Ethernet Fabric Architecture

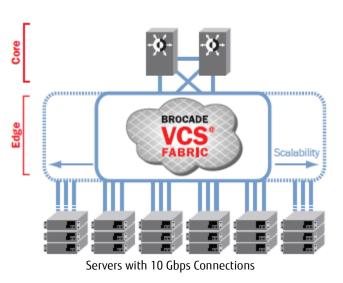
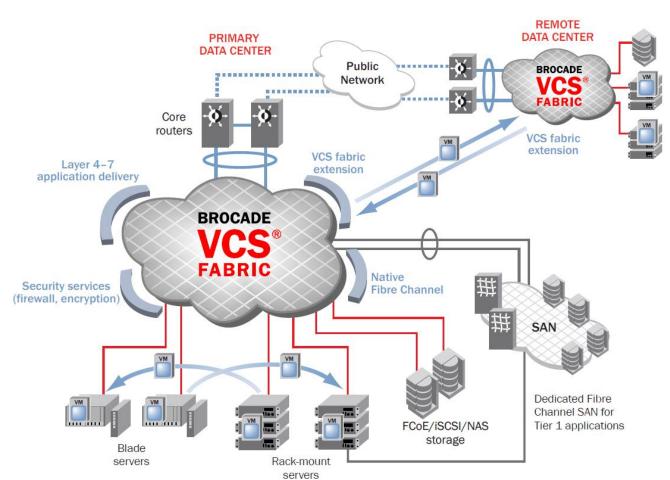


Figure 1.

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.



Multiple Load-Balanced Paths at Layers 1-3

Brocade VCS Fabric technology enables highly elastic domains with extremely efficient load balancing in Layers 1–3. Innovative Brocade ISL Trunking load balances traffic across all the links in a trunk for improved performance at Layer 1. In Layer 2, Equal Cost Multi-Path (ECMP) uses all available network bandwidth, allowing all links to be fully active and utilized. In the event of a failure, traffic is automatically routed to the closest path, providing higher resilience and greater application uptime. In Layer 3, the fabric automatically load balances all flows among a number of Layer 3 instances that collectively act as a single Layer 3 gateway. Multilayer multipathing helps improve network utilization, reduce latency, and increase overall network performance.

OPTIMIZED FOR VIRTUALIZATION

Brocade VCS Fabric technology offers unique features to support virtualized server and storage environments and enable the transition to cloud computing (see Figure 2):

Brocade VCS Gateway for NSX: Brocade VCS Gateway for NSX
provides a solution that unifies both virtual and hardware
architectures for a seamless transition to cloud architectures. By
unifying the best of both worlds–physical and virtual–Brocade
VCS Gateway for NSX enables physical devices to connect to the
virtual overlay network. By leveraging Brocade VCS Fabric
technology, Brocade VCS Gateway for NSX allows large numbers
of virtual domains to be created above existing networks. This
enables organizations to efficiently use their current

infrastructure while leveraging the benefits of VXLAN to support multitenancy and large-scale deployment of applications and Virtual Machines (VMs).

In addition, Brocade VCS Gateway for NSX easily integrates with the VMware NSX Controller to leverage the power of virtualized environments.

- Zero-touch VM discovery: Brocade VM-Aware Network Automation eliminates the manual configuration of port profiles when a VM is added to the fabric or moved, providing an additional level of automation. The VCS fabric directly communicates with VMware vCenter, automatically downloading all port profile information and the associated MAC address, and distributes the VM-specific information to all switches within the fabric. When the VM moves, no additional configuration is required.
- Automatic Migration of Port Profiles: During a VM migration, the destination network switch ports must be configured to ensure that the VM traffic experiences consistent policies and configurations. With the Brocade Automatic Migration of Port Profiles (AMPP) feature, the VM policies and networking policies follow the VM within the VCS fabric. As a VM migrates, the destination port in the fabric learns of the MAC address move and automatically activates the port profile configuration within a single fabric or across separate fabrics. AMPP is hypervisor-agnostic and can be used with various hypervisors.

FLEXIBLE DESIGN MEETS DATA CENTER NEEDS

Brocade VDX 6740, 6740T, and 6740T-1G Switches are designed to connect data centers with multiple options to meet individual design requirements. This flexible design provides investment protection, giving organizations a single switch that can support varying data center requirements. The following features help organizations meet their evolving needs:

- 10 GbE or 40 GbE uplinks: The 40 GbE SFP+ ports offer the flexibility to expand and interconnect the network infrastructure intelligently and efficiently while reducing bottlenecks. The switches offer the option to separate the 40 GbE uplinks into four 10 GbE uplinks via break-out cables. As capacity and need increase, organizations can simply revert to 40 GbE when ready.
- Ports on Demand: Ports on Demand (PoD) enables organizations to activate 24 to 64 ports. They can purchase the number of ports that they currently need and seamlessly scale up later by simply applying a software license. This flexible and cost-efficient "pay-as-you-grow" licensing model solves scalability challenges by allocating IT resources as needed.

ADVANCED STORAGE SUPPORT

The Brocade VDX 6740, 6740T, and 6740T-1G offer advanced storage support with multiple storage connectivity options, including FCoE, iSCSI, and NAS storage. They also feature Data Center Bridging (DCB), which enables the reliable exchange of storage traffic over the LAN network, eliminating packet loss when network congestion occurs and allocating bandwidth as needed to keep the network running efficiently. The switches offer Network-Attached Storage (NAS) Auto QoS intelligence to prioritize delay-sensitive IP storage traffic within the fabric and help ensure consistent performance while decreasing latency.

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 lifecycle. 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.

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.

ADVANCED TECHNOLOGY ENABLES THE ON-DEMAND DATA CENTER

Data centers will continue to evolve as technology requirements evolve. With virtualization, cloud computing, and SDN on the rise, organizations need an infrastructure that is able to evolve with their businesses. Brocade VDX 6740, 6740T, and 6740T-1G Switches provide the features, performance, and operational efficiency for today and tomorrow.

BROCADE GLOBAL SERVICES

Brocade Global Services has the expertise to help organizations build scalable, and 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.

AFFORDABLE ACQUISITION OPTIONS

Brocade Capital Solutions helps organizations easily address their IT requirements by offering flexible network acquisition and support alternatives. Organizations can select from purchase, lease, Brocade Network Subscription, and Brocade Subscription Plus options to align network acquisition with their unique capital requirements and risk profiles.

MAXIMIZING INVESTMENTS

To help optimize technology investments, Brocade and its partners offer complete solutions that include professional services, technical support, and education.

Technical details

BROCADE VDX 6740, 6740T, AND 6740T-1G Feature overview					
	Brocade VDX 6740	Brocade VDX 6740T	Brocade VDX 6740T-1G		
Form factor	10	10	10		
Switching bandwidth (data rate, full duplex)	1.28 Tbps	1.28 Tbps	1.28 Tbps		
Switch performance	960 Mpps	960 Mpps	960 Mpps		
Port-to-port latency	850 ns	3 µs	3 µs		
Dimensions and weight	Width: 43.99 cm (17.32 in.)	Width: 43.74 cm (17.22 in.)	Width: 43.74 cm (17.22 in.)		
	Height: 4.32 cm (1.75 in.)	Height: 4.27 cm (1.68 in.)	Height: 4.27 cm (1.68 in.)		
	Depth: 40.99 cm (16.14 in.)	Depth: 53.65 cm (21.12 in.)	Depth: 53.65 cm (21.12 in.)		
	Weight: 8.66 kg (19.1 lb)	Weight: 10.82 kg (23.85 lb)	Weight: 10.82 kg (23.85 lb)		
1/10 GbE SFP+ ports	Up to 64	Up to 16	Up to 16		
1/10 GBASE-T	0	48	48		
40 GbE QSFP+ (10 GbE break-out cable)	4	4	4		
10 GbE Ports on Demand (PoD)	24, 32, 40, 48, 56, 64	24, 32, 40, 48, 56, 64	N/A		
10 GbE Capacity on Demand (CoD)	N/A	N/A	16, 32, 48		
Power supplies	Two hot-swappable,	Two hot-swappable,	Two hot-swappable,		
	load-sharing	load-sharing	load-sharing		
Cooling fans	N+1 redundant, integrated	N+1 redundant, five	N+1 redundant, five		
	into power supplies	hot-swappable fan units	hot-swappable fan units		
Airflow	Front to back Front to back Front to back		Front to back		
	Back to front	Back to front	Back to front		

BROCADE VDX 6740, 6740T, AND 6740T-1G Specifications			
Scalability Information*			
Connector options	Out-of-band Ethernet management: RJ-45 (fixed)		
	Console management: RJ45 to RS-232 (fixed)		
	Firmware and diagnostic: USB		
Maximum VLANs	4,096		
Maximum MAC addresses	160,000		
Maximum port profiles (AMPP)	1,024		
Maximum members in a standard LAG	64		
Maximum per-port priority pause level	8		
Maximum switches in a VCS fabric	32		
Maximum ECMP paths in a VCS fabric	16		
Maximum trunk members for VCS fabric ports	16		
Maximum LAG groups in a VCS fabric	512		
Maximum switches across which a vLAG can span	8		
Maximum members in a vLAG	64		
Maximum jumbo frame size	9,216 bytes		
Queues per port	8		
DCB Priority Flow Control (PFC) classes	8		
Maximum ACLs	13,000		
Maximum ARP entries	32,000		
Maximum IPv4 unicast routes	12,000		
Maximum IPv6 unicast routes	3,000 [†]		

* Please refer to the latest version of the release notes for the most up-to-date scalability numbers.
 [†] Hardware supported.

General Operating system	Brocade Network OS 4.1.0	
Layer 2 switching features	Address Resolution Protocol (ARP) RFG	• Edge loop detection (ELD)
	826	Per-VLAN Spanning Tree
	 High availability/In-Service Software 	(PVST+/PVRST+)
	Upgrade—hardware-enabled	
		Rapid Spanning Tree Protocol (RSTP)
	IGMP v1/v2 Snooping	802.1w
	• MAC Learning and Aging	• Multiple Spanning Tree Protocol
	Link Aggregation Control Protocol	(MSTP) 802.1s
	(LACP) IEEE 802.3ad/802.1AX	STP PortFast, BPDU Guard, BPDU Filter
	Virtual Local Area Networks (VLANs)	STP Root Guard
	 VLAN Encapsulation 802.1Q 	\cdot Layer 2 Access Control Lists (ACLs)
	Private VLANs	Pause Frames 802.3x
		\cdot Uni-Directional Link Detection (UDLD)
Layer 3 switching features	 Border Gateway Protocol (BGP) 	 Static routes
	• DHCP Helper	・VRF Lite
	 Layer 3 ACLs 	 VRF-aware OSPF, VRRP, Static routes
	Multicast: PIM-SM	· VRRP-E
	• OSPF	
Brocade VCS fabric technology features	Automatic Fabric Formation	• Switch Beaconing
	 DHCP Option 66/67 (Auto Fabric 	• Transparent Interconnection of Lots o
	Provisioning)	Links (TRILL)
	Distributed Configuration	Transparent LAN Services
	Management	· Virtual Link Aggregation Group (vLAG
	Distributed Fabric Services	spanning
	• Equal Cost Multi-Path (ECMP)	· VRRP-E
Multi-tenancy and virtualization features	TRILL FGL-based Virtual Fabric feature	
	Brocade VCS Gateway for NSX with	(AMPP)
	VMware NSX Orchestration	• VM-Aware Network Automation
DCB features	Priority-based Flow Control (PFC)	Data Center Bridging eXchange
	802.1Qbb	(DCBX)
	Enhanced Transmission Selection	• DCBX Application Type-Length-Value
	(ETS) 802.1Qaz	(TLV) for FCoE and iSCSI
FCoE features	Multihop Fibre Channel over Ethernet	
	-	
(Requires FCoE license)	(FCoE); requires Brocade VCS Fabric	• FCoE Initialization Protocol (FIP) v1
	technology	support for FCoE device login and
	FC-BB5 compliant Fibre Channel	initialization
	Forwarder (FCF)	Name Server-based zoning
	Native FCoE forwarding	Supports connectivity to FIP Snooping
	FCoE to Fibre Channel Bridging	Bridge (FSB) device
	• FCoE on Brocade VDX 6740 and	FCoE traffic over standard LAG
	Brocade VDX 6740T	 Interface Binding
	 FCoE on QSFP+ port 	
IP storage	\cdot Auto QoS (automatic prioritization of	
	IP storage traffic)	
Quality of Service (QoS)	 ACL-based QoS 	• ACL-based Rate Limit
	 Eight priority levels for QoS 	• Dual-rate three color token bucket
		\cdot ACL-based remarking of
, , , ,	 Class of Service (CoS) IEEE 802.1p 	Act based remarking of
, , , ,	 Class of Service (CoS) IEEE 802.1p DSCP Trust 	CoS/DSCP/Precedence
, , , , , , , , , , , , , , , , , , ,	DSCP Trust	CoS/DSCP/Precedence
, , , ,	DSCP Trust DSCP to Traffic Class Mutation	CoS/DSCP/Precedence ACL-based sFlow
, , , ,	 DSCP Trust DSCP to Traffic Class Mutation DSCP to CoS Mutation 	CoS/DSCP/Precedence • ACL-based sFlow • Scheduling: Strict Priority (SP), Deficit
, , , , , ,	 DSCP Trust DSCP to Traffic Class Mutation DSCP to CoS Mutation DSCP to DSCP Mutation 	 CoS/DSCP/Precedence ACL-based sFlow Scheduling: Strict Priority (SP), Deficit Weighted Round-Robin (DWRR),
, , , , , , , , , , , , , , , , , , ,	 DSCP Trust DSCP to Traffic Class Mutation DSCP to CoS Mutation 	CoS/DSCP/Precedence • ACL-based sFlow • Scheduling: Strict Priority (SP), Deficit

Management				
Management and control	IPv4/IPv6 management	sFlow RFC 3176		
	Industry-standard Command Line Out-of-band management			
	Interface (CLI)	· Remote SPAN (RSPAN)		
	 Remote lights out management 	· RMON-1, RMON-2		
	(future update)	• NTP		
	Link Layer Discovery Protocol (LLDP)	 Management Access Control Lists 		
	IEEE 802.1AB	(ACLs)		
	\cdot Logical chassis management	 Role-Based Access Control (RBAC) 		
	MIB II RFC 1213 MIB	 Range CLI support 		
	 Switch Beaconing 	· UDLD		
	 Switched Port Analyzer (SPAN) 	Netconf API		
	· Telnet	\cdot Brocade VCS Plugin for OpenStack		
	 SNMP v1, v2C, v3 			
Security	 Port-based Network Access Control 	• BPDU Drop		
	802.1X	 Lightweight Directory Access Protocol 		
	· RADIUS	(LDAP)		
	· TACACS+	 Secure Copy Protocol 		
	Secure Shell (SSHv2)			
Mechanical				
Enclosure	Front-to-rear, rear-to-front airflow; 1U,	19-inch EIA-compliant: power from		
	non-port side	·····, p·····		
Environmental				
Temperature	Operating: 0°C to 40°C (32°F to 104°F)	Operating: 0°C to 40°C (32°E to 104°E)		
· · · · · · · · · · · · · · · · · · ·	Non-operating and storage: -25° C to 7	0°C (-13°F to 158°F)		
Humidity	Operating: 10% to 85% non-condensir			
	Non-operating and storage: 10% to 90% non-condensing			
Altitude	Operating: Up to 3,048 meters (10,000 feet)			
	Non-operating and storage: Up to 12 kilometers (39,370 feet)			
Shock	Operating: 20 G, 11 ms half-sine			
		Non-operating and storage: Square wave, 44 G, 15 ms		
Vibration		Operating: 0.5 G peak, 0.7 G ms random, 5 to 500 Hz		
	Non-operating and storage: 2.0 g sine			
Airflow	Brocade VDX 6740 port-side-intake an			
	Maximum: 25.7 CFM			
	Nominal: 11.5 CFM			
	Brocade VDX 6740T port-side-intake:			
	Maximum: 49.3 CFM			
	Nominal: 26.3 CFM			
	Brocade VDX 6740T port-side-exhaust:			
	Maximum: 51.9 CFM			
	Nominal: 27.3 CFM			
Heat dissipation	1672.41 BTU/hr			
Dawar				
Power Power supplies	Two internal redundant field-replace:	able, load-sharing AC nower supplies		
Power inlet	C13	Two internal, redundant, field-replaceable, load-sharing AC power supplies		
Input voltage	85 to 264 VAC nominal			
Input line frequency	50 to 60 Hz			
Maximum current	6 A max at 100 VAC/60 Hz			
Maximum power consumption	Brocade VDX 6740: 110 W			
малтнитт ромет сопзиттрион	Brocade VDX 6740: 110 W Brocade VDX 6740T: 490 W			
	Brocade VDX 6740T-1G: 490 W			

	C22.2 No. 60950-1-07 including A1 / UL 60950-1-07, •	IEC 60950-1 Second Edition +A1	
	5	GB 4943.1-2011 and GB9254-2008	
	5	CNS14336-1(99)	
• EN 6095	0-1 Second Edition +A1/A12		
EMC			
FCC Class		BSMI	
• ICES-003		GOST	
• VCCI-Clas		KCC Class A	
· CE · C-Tick		CCC	
Immunity			
· ANSI C63		AS/NZS CISPR22	
• ICES-003		CNS 13438(95)	
		51318.22-99 and 51318.24-99	
		KN22 and KN24 GB17625.1-2003	
· CISPR22	· · · ·	UD1/023.1-2003	
Environm	ental Regulatory Compliance		
	<i>i</i> th lead exemption) Directive 2002/95/EC		
Standarde	: Compliance		
	DX 6740 products conform to the following Ethernet sta	ndards:	
		IEEE 802.1Q VLAN Tagging	
	. 1s Multiple Spanning Tree	IEEE 802.1p Class of Service Prioritization and Tagging	
	IEEE 802.1w Rapid Reconfiguration of Spanning Tree Protocol · IEEE 802.1v VLAN Classification by Protocol and Port		
· IEEE 802	EEE 802.3 Ethernet · IEEE 802.1AB Link Layer Discovery Protocol (LLDP)		
	EE 802.3ad Link Aggregation with LACP · IEEE 802.3x Flow Control (Pause Frames)		
	55 5		
		IEEE 802.3ab 1000BASE-T	
• IEEE 802		IEEE 802.3ab 1000BASE-T IEEE 802.3z 1000BASE-X	
• IEEE 802		IEEE 802.3ab 1000BASE-T IEEE 802.3z 1000BASE-X	
• IEEE 802 The follow are also su	2.3ae 10G Ethernet	IEEE 802.3ab 1000BASE-T IEEE 802.3z 1000BASE-X	
 IEEE 802 The follow are also su IEEE 802 	2.3ae 10G Ethernet ring draft versions of the Data Center Bridging (DCB) and upported on the Brocade VDX 6740: 2.1Qbb Priority-based Flow Control	IEEE 802.3ab 1000BASE-T IEEE 802.3z 1000BASE-X	
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RFC 1519 Classless Interdomain Routing (CIDR)

RFC 4510 Lightweight Directory Access Protocol (LDAP): Technical

RFC 1584	Multicast Extensions to OSPF		Specification
RFC 1765	OSPF Database Overflow	RFC 4271	BGPv4
RFC 1812	Requirements for IP Version 4 Routers	RFC 4292	IP Forwardir
RFC 1997	BGP Communities Attribute	RFC 4293	Managemer
RFC 2068	HTTP Server		Protocol (IP)
RFC 2131	Dynamic Host Configuration Protocol (DHCP)	RFC 3411	An Architect
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	management interface)		(PIM-SM): P
		RFC 4893	BGP Support

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- RFC 4893 BGP Support for Four-Octet AS Number Space

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