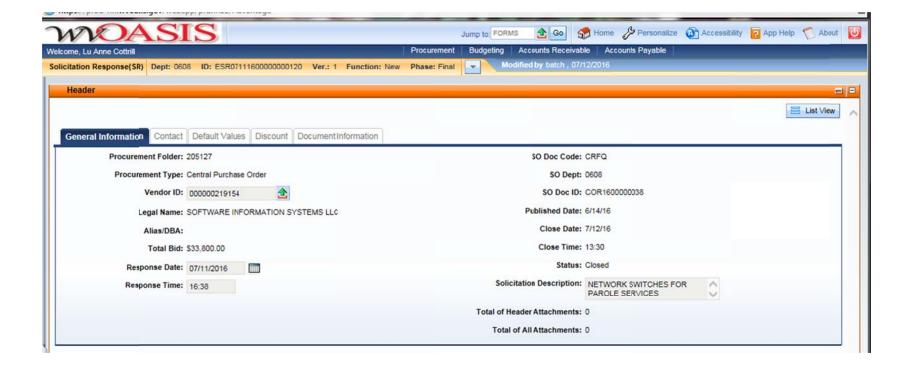


2019 Washington Street, East Charleston, WV 25305 Telephone: 304-558-2306 General Fax: 304-558-6026 Bid Fax: 304-558-3970

The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at *wvOASIS.gov*. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at *WVPurchasing.gov* with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.





Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

State of West Virginia Solicitation Response

Proc Folder: 205127

Solicitation Description: NETWORK SWITCHES FOR PAROLE SERVICES

Proc Type: Central Purchase Order

Date issued	Solicitation Closes	Solicitation No	Version
	2016-07-12 13:30:00	SR 0608 ESR0711160000000120	1

VENDOR

000000219154

SOFTWARE INFORMATION SYSTEMS LLC

FOR INFORMATION CONTACT THE BUYER

Crystal Rink (304) 558-2402 crystal.g.rink@wv.gov

Signature X FEIN # DATE

All offers subject to all terms and conditions contained in this solicitation

Page: 1 FORM ID: WV-PRC-SR-001

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Network switches	10.00000	EA	\$1,700.000000	\$17,000.00

Comm Code	Manufacturer	Specification	Model #	
43222612				

Cisco Catalyst 2960S-F48FPS-L 48 Ethernet 10/100 ports with PoE+ 4 SFP 740W **Extended Description:**

Part Number WS-C2960S-F48FPS-L

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
2	Network switches	14.00000	EA	\$900.000000	\$12,600.00

Comm Code	Manufacturer	Specification	Model #	
43222612				

Extended Description: Cisco Catalyst 2960S-F24PS-L

24 Ethernet 10/100 ports with PoE+ 2 SFP 370W

Part number WS-C2960S-F24PS-L

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
3	Transceivers and media converters	28.00000	EA	\$150.000000	\$4,200.00

Comm Code	Manufacturer	Specification	Model #	
43201553				

GLC-SX-MMD= 1000BASE-SX SFP transceiver module MMF 850nm DOM. or equal **Extended Description:**

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
4	Guarantee agreements	10.00000	EA	\$0.000000	\$0.00

Comm Code	Manufacturer	Specification	Model #	
84101503				

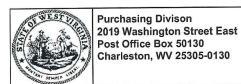
CISCO Smartnet 24x7x365 Total Care Service, or equal for CISCO 2960-SF 48 FE PoE, OR EQUAL **Extended Description:**

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
5	Guarantee agreements	14.00000	EA	\$0.000000	\$0.00

Comm Code	Manufacturer	Specification	Model #	
84101503				

Extended Description :

CISCO Smartnet 24x7x365 Total Care Service, or equal for CISCO 2960-SF 24 FE PoE, OR EQUAL



State of West Virginia Request for Quotation 21 — Info Technology

Proc Folder: 205127

Doc Description: NETWORK SWITCHES FOR PAROLE SERVICES

Proc Type: Central Purchase Order

BID RECEIVING LOCATION

BID CLERK

DEPARTMENT OF ADMINISTRATION

PURCHASING DIVISION

2019 WASHINGTON ST E

CHARLESTON

WV

25305

US

VENDOR
Vendor Name, Address and Telephone Number:

Software Information System, LLC 200 Association Drive, Suite 210

Charleston, WV 25311

304 768-1645

To-1 43,800

FOR INFORMATION CONTACT THE BUYER

Crystal Rink (304) 558-2402 crystal.g.rink@wv.gov

Signature X

FEIN#61-137/685

DATE 7-12-2016

All offers subject to all terms and conditions contained in this solicitation

Page: 1

FORM ID: WV-PRC-CRFQ-001

THE STATE OF WEST VIRGINIA PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF CORRECTIONS, IS SOLICITING BIDS TO ESTABLISH A CONTRACT FOR THE ONE-TIME PURCHASE OF ETHERNET SWITCHES PER THE ATTACHED

INVOICE TO		SHIP TO			
FISCAL DEPARTMENT		FISCAL DEPARTMENT	FISCAL DEPARTMENT		
DIVIDION OF CONNECTIONS SERVING ESTATES		DIVISION OF CORRECTIONS - CENTRA	AL OFFICE		
1409 GREENBRIER ST ST	E 300	STE 300			
		1409 GREENBRIER ST			
CHARLESTON	WV25311	CHARLESTON W	V 25311		
US		US	,		

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Network switches	10.00000	EA	1700.00	\$ 17,000.00

Comm Code	Manufacturer	Specification	Model #	
43222612	Brocade	43PT POE + 3X16 SFP+	1CX7250-40P	

Extended Description:

Cisco Catalyst 2960S-F48FPS-L 48 Ethernet 10/100 ports with PoE+ 4 SFP 740W Part Number WS-C2960S-F48FPS-L or equivalent

INVOICE TO		SHIP TO		
DIVISION OF CORRECTIONS - CENTRAL OFFICE		FISCAL DEPARTMENT DIVISION OF CORRECTIONS - CENT STE 300	DIVISION OF CORRECTIONS - CENTRAL OFFICE	
1409 GREENBRIER ST ST	E 300	1409 GREENBRIER ST		
CHARLESTON	WV25311	CHARLESTON	WV 25311	
US		US		

n Desc G	Qty	Unit Issue	Unit Price	Total Price
switches 1	4.00000	EA	900.00 3/	12,600.00
	n Desc C switches	44,00000	14 00000 FA	These aty Shares TA

Comm Code	Manufacture	r		Specification	Model #	
43222612	Brocade 24PT F		POE +	3X165FP+	16×7250-24P	

Extended Description:

Cisco Catalyst 2960S-F24PS-L 24 Ethernet 10/100 ports with PoE+ 2 SFP 370W Part number WS-C2960S-F24PS-L or equivalent

INVOICE TO		SHIP TO			
FISCAL DEPARTMENT		FISCAL DEPARTMENT	FISCAL DEPARTMENT		
DIVISION OF CORRECTION	IS - CENTRAL OFFICE	DIVISION OF CORRECTIONS -	DIVISION OF CORRECTIONS - CENTRAL OFFICE		
1409 GREENBRIER ST STE	1409 GREENBRIER ST STE 300		STE 300		
		1409 GREENBRIER ST			
CHARLESTON	WV25311	CHARLESTON	WV 25311		
US		US			

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
3	Transceivers and media converters	28.00000	EA	15000	4200.00

Comm Code	Manufacturer	Specification	Specification Model #	
43201553	\$ pocade	1000BSX SFP MOD	MM CC	F/MG-5X -0M

Extended Description:

GLC-SX-MMD= 1000BASE-SX SFP transceiver module MMF 850nm DOM. or equal

INVOICE TO		SHIP TO			
FISCAL DEPARTMENT		FISCAL DEPARTMENT			
DIVISION OF CORRECTIONS - CENTRAL OFFICE 1409 GREENBRIER ST STE 300		DIVISION OF CORRECTIONS - CENTRA STE 300	DIVISION OF CORRECTIONS - CENTRAL OFFICE STE 300		
		1409 GREENBRIER ST			
CHARLESTON	WV25311	CHARLESTON W	V 25311		
US		US			

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
4	Guarantee agreements	10.00000	EA	included	- Carrentees

Comm Code	Manufacturer		Speci	fication	Mode	Model #	
84101503	Brocade	3745	VS	140	for Cisto	of no	teon o

Extended Description:

CISCO Smartnet 24x7x365 Total Care Service, or equal for CISCO 2960-SF 48 FE PoE, OR EQUAL

INVOICE TO		SHIP TO			
DIVISION OF CORRECTIONS - CENTRAL OFFICE		FISCAL DEPARTMENT DIVISION OF CORRECTIONS - CENTRA STE 300	DIVISION OF CORRECTIONS - CENTRAL OFFICE		
		1409 GREENBRIER ST			
CHARLESTON	WV25311	CHARLESTON W	V 25311		
US		US			

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
5	Guarantee agreements	14.00000	EA	nolded	-

Comm Code Manufacturer Specification Model #

84101503

Brocale 3411 US 171 CISCO 97 no cost

Extended Description:

CISCO Smartnet 24x7x365 Total Care Service, or equal for CISCO 2960-SF 24 FE PoE, OR EQUAL

SCHEDULE OF EVENTS

<u>Line</u> <u>Event</u> 1 VEND

VENDOR QUESTION DEADLINE

Event Date 2016-06-27

Page: 4

	Document Phase	Document Description	Page 5
COR1600000038	Final	NETWORK SWITCHES FOR PAROLE	of 5
		SERVICES	

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the
Contract Administrator and the initial point of contact for matters relating to this Contract.
Charles D. Arnett St. Cha. of Excertine
(Name, Title)
200 Association Dr. Charles how 25311
(Printed Name and Title)
(Address)
304 768-1645 304 768-1671
(Phone Number) / (Fax Number)
(email address)
CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation
through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand
the requirements, terms and conditions, and other information contained herein; that this bid,
offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the
product or service proposed meets the mandatory requirements contained in the Solicitation for
that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this
bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute
and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that
I am authorized to bind the vendor in a contractual relationship; and that to the best of my
knowledge, the vendor has properly registered with any State agency that may require
registration.
Software Internation Systems CCC
(Company)
Cath
(Authorized Signature) (Representative Name, Title)
Charles DAMET St. Chart From fine
(Printed Name and Title of Authorized Representative)
7-12-2016
(Date)
304 763-1645 304 768-1671
Phone Number) (Fax Number)

STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

MANDATE: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (*W. Va. Code* §61-5-3) that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:	0 1	. 1	1
Vendor's Name: Scftware	1-torma 4. 5-	15/243	LLC
Authorized Signature:	att	Date:	7-11-2016
State of West Virginia	4		
County of <u>kanawha</u> , to-wit:	7		
Taken, subscribed, and sworn to before me this	IL day of Jaly	SCOREGUE AND DESCRIPTION OF THE PROPERTY OF TH	_, 20 <u>/ (</u> .
My Commission expires $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$, 2010	ī	
AFFIX SEAL HERE Official Seal Official Seal Action Public State of West Virginia	NOTARY PUBLIC	Purchas	Chushnan sing Affidavit (Revised 07/01/2012)
Janet Christman		•	

South Charleston Public Library
312 Fourth Avenue
South Charleston, WV 25303
commission expires November 24, 2020



Brocade ICX 7250 Switch



HIGHLIGHTS

- Offers enterprise-class stackable switching at an entry-level price, allowing organizations to buy what they need now and easily scale as demand grows and new technologies emerge
- Future-proofs campus networks via flexible stacking, software licensing of
 1 GbE to 10 GbE ports, Brocade Campus Fabric technology, and future upgrades to OpenFlow support in true hybrid port mode, enabling Software-Defined Networking (SDN) for programmatic network control
- Enables enterprise-class manageability with up to 8×10 GbE ports for stacking or uplinks
- Delivers market-leading stacking scalability with up to 12 switches per stack, 80 Gbps of stacking bandwidth, and long-distance stacking using open standards
- Offers full Power over Ethernet (PoE+)
 to power wireless access points, video
 surveillance and video conferencing
 equipment, VDI terminals, and HD displays
 directly from the switch
- Includes the Brocade Assurance Limited Lifetime Warranty and three years of technical support

Entry-Level, Enterprise-Class Stackable Switch with Future-Proof Expandability

The Brocade® ICX® 7250 Switch delivers the performance, flexibility, and scalability required for enterprise Gigabit Ethernet (GbE) access deployment. It raises the bar with up to 8×10 GbE ports for uplinks or stacking and market-leading stacking density with up to 12 switches (576×1 GbE) per stack. In addition, the Brocade ICX 7250 combines enterprise-class features, manageability, performance, and reliability with the flexibility, cost-effectiveness, and "pay as you grow" scalability of a stackable solution.

Premium Performance in an Entry-Level Switch

The Brocade ICX 7250 Switch provides enterprise-class stackable LAN switching solutions to meet the growing demands of campus networks. Designed for small to medium-size enterprises, branch offices, and distributed campuses, these intelligent, scalable edge switches deliver enterprise-class functionality at an affordable price—without compromising performance and reliability. The Brocade ICX 7250 delivers wire-speed, nonblocking performance across all ports to support latency-sensitive applications, such as real-time voice/video streaming and Virtual Desktop Infrastructure (VDI). The Brocade ICX 7250 is available in 24and 48-port 10/100/1000 Mbps models with 1 GbE uplink or 10 GbE dual-purpose uplink/stacking ports (see Figure 1)—with or without PoE and PoE+—to support

enterprise edge networking, wireless mobility, and IP communications without the need for additional power outlets or power injectors.

The new Brocade Campus Fabric technology maximizes the value of Brocade ICX 7250 Switches. It enables the Brocade ICX 7250 to extend ports in combination with Brocade ICX 7450 and 7750 Switches, creating a complete campus network solution with consolidated management across aggregation and core layers, shared network services—adding advanced Layer 3 capabilities to all switches—and scaleout flexibility to expand port density as needed (see Figure 2). The Brocade ICX 7250 with Campus Fabric technology provides an ideal network access solution for the campus network.

^{*} Support on the Brocade ICX 7250 to be available in a future release.

Scaling Out Ports and Services as Demand Grows

The Brocade ICX 7250 is easy to deploy, manage, and integrate into both new and existing networks. Organizations can buy only what they need today, and easily scale out as demand grows and new technologies emerge.

Brocade stacking technology makes it easy to scale ports by stacking up to 12 Brocade ICX 7250 Switches into a single logical switch. This allows the Brocade ICX 7250 to provide a class-leading 80 Gbps of backplane bandwidth as well as simple and robust expandability for future growth at the network edge. In addition, this stacked switch has only a single IP address to simplify management and offers transparent forwarding across a pool of up to 576×1 GbE ports and 96×10 GbE ports. When new switches join the stack, they automatically inherit the stack's existing configuration file, enabling true plug-and-play network expansion. Flexible licensing of 1 GbE to 10 GbE ports, for uplink and stacking, allows organizations to optimize network performance based on specific requirements.

Furthermore, Brocade Campus Fabric technology* enables organizations to add advanced Layer 3 services across the stack by simply adding premium Brocade ICX 7750 Switches to existing Brocade ICX 7250 deployments. This eliminates the need for "rip and replace" upgrades, since low-cost Brocade ICX 7250 ports can live on to inherit new services.

Brocade Campus Fabric Technology: Extending Options and Scalability

Brocade Campus Fabric technology, offered for Brocade ICX 7250*, 7450, and 7750 Switches, extends network options and scalability. It integrates premium Brocade ICX 7750, midrange Brocade ICX 7450, and entry-level Brocade ICX 7250 Switches, collapsing network access, aggregation, and core layers into

Brocade ICX 7250 Switches

Except as noted, all Brocade ICX 7250 models offer eight uplink/stacking ports, a single integrated power supply and fan, one RJ-45 network management port, one mini USB serial management port, and one USB storage port on the front panel.



Brocade ICX 7250-24G

24×10/100/1000 Mbps RJ-45 ports 4×1 GbE uplink ports Not upgradable; no EPS connector Premium Layer 3 licenses not applicable



Brocade ICX 7250-24

24×10/100/1000 Mbps RJ-45 ports 8×1 GbE uplink/stacking ports Upgradable to 10 GbE



Brocade ICX 7250-24P

24×10/100/1000 Mbps RJ-45 PoE+ ports 370 W PoE budget 8×1 GbE uplink/stacking ports Upgradable to 10 GbE



Brocade ICX 7250-48

48×10/100/1000 Mbps RJ-45 ports 8×1 GbE uplink/stacking ports Upgradable to 10 GbE



Brocade ICX 7250-48P

48×10/100/1000 Mbps RJ-45 PoE+ ports 740 W PoE budget 8×1 GbE uplink/stacking ports Upgradable to 10 GbE

a single logical switch. This logical device shares network services while reducing management touch points and network hops through a single-layer design spanning the entire campus network. These powerful deployments deliver equivalent or better functionality than large, rigid modular chassis systems, but with significantly lower costs and smaller carbon footprints.



Figure 1: Up to 12 Brocade ICX 7250 Switches can be stacked together using up to four full-duplex SFP+ 10 Gbps ports for a fully redundant backplane with 80 Gbps of stacking bandwidth.

 $[\]mbox{^{\, \bullet}}$ Support on the Brocade ICX 7250 to be available in a future release.

Traditional Network



Multi-Tier Model

Brocade Campus Fabric

Single Logical Switch

Figure 2: Brocade Campus Fabric technology.

Brocade ICX switches support a
Distributed Chassis deployment model
that uses standards-based optics and
cabling interface connections to help
ensure maximum distance between
campus switches—up to 80 km—and
minimum cabling costs—up to 50 percent
less than incumbent solutions. This gives
organizations the flexibility to deliver ports
wherever they are needed on campus
at a fraction of the cost. The Distributed
Chassis design future-proofs campus
networks by allowing networks to easily
and cost-effectively expand in scale
and capabilities.

Full Layer 3 Capabilities

Brocade ICX 7250 Switches offer an upgrade option to bring full Layer 3 capabilities to the network edge, reducing complexity and enhancing the reliability of enterprise networks.

Power to Spare

The Brocade ICX 7250 can deliver both power and data across network connections, supporting Power over Ethernet (PoE/PoE+) standards and providing a single-cable solution for edge devices, such as wireless access points, VoIP phones, video surveillance equipment, and VDI thin terminals. Carrying data and power through a single Ethernet wire reduces the number of power receptacles and power adapters while increasing reliability and wiring flexibility. The Brocade ICX 7250-24P provides 370 watts and can deliver PoE power to all 24 ports, while the Brocade ICX 7250-48P provides

740 watts and can deliver PoE+ power for up to 12 or 24 ports. Both switches can provide PoE and PoE+ (30 watts) power to all ports when an external power supply is deployed.

The optional Brocade ICX-EPS 4000 is an external power supply source that delivers additional power for up to 16 Brocade ICX 7250 Switches (see Figures 3 and 4). It can be used for system power redundancy and an increased PoE/PoE+power budget to enable additional ports.

EEE Power Savings

The Brocade ICX 7250 Switch supports the IEEE 802.3az standard for Energy Efficient Ethernet (EEE), reducing power consumption during periods of low utilization. Ports are placed into a low power mode when no data is being transmitted.

Enterprise-Class Availability

When every second matters, Brocade ICX 7250 Switches help deliver continuous availability to optimize the user experience. Brocade stacking technology delivers high availability, performing real-time state synchronization across the stack and enabling instantaneous hitless failover to a standby controller in the unlikely event of a failure of the master stack controller. Organizations also can use hot-insertion/removal of stack members to avoid interrupting service when adding a switch to increase the capacity of a stack or replacing a switch that needs servicing.

BROCADE CAMPUS FABRIC TECHNOLOGY

Brocade Campus Fabric technology brings campus networks into the modern era to better support seamless wireless mobility, security, and ease of application deployment. This innovative technology collapses multiple network layers into a single logical switch, flattening the network and eliminating deployment complexity while simplifying network management and reducing operating costs.

Brocade Campus Fabric technology enables organizations to build networks that deliver:

- Consolidated management: Reduces unnecessary network layers to create large management domains that eliminate individual switch touch points, reducing maintenance time and costs.
- Shared network services: Allows premium and entry-level switches to mesh together into a single logical switch and share advanced Layer 2/3 services, delivering lower price-per-port functionality without compromising performance.
- Scale-out networking: Integrates highperformance, fixed form-factor switches to create a single distributed logical switch that is independent of physical location and allows organizations to add ports whenever and wherever needed across the campus without adding complexity.



Figure 3: Brocade ICX-EPS 4000 for the Brocade ICX 7250, shown with four AC power supplies.



Figure 4: Rear view of the Brocade ICX-EPS 4000 connectivity.

In addition to stack-level high availability, Brocade ICX 7250 Switches also offer an external power supply for failover resiliency, as well as increased PoE/PoE+port availability.

Simplified, Open-Standards-based Management and Monitoring

The Brocade ICX 7250 provides simplified, standards-based management capabilities that help organizations reduce administrative time and effort while securing their networks.

sFlow-based "Always-On" Network Monitoring

sFlow is a modern, standards-based network export protocol (RFC 3176) that addresses many of the challenges that network managers face today. By embedding sFlow hardware support into the Brocade ICX 7250, Brocade delivers an "always-on" technology that operates with wire-speed performance. sFlow dramatically reduces implementation costs compared to traditional network monitoring solutions that rely on mirrored ports, probes, and line-tap technologies. Moreover, sFlow gives organizations full, enterprise-wide monitoring capability for every port in the network.

Simplified, Automated Deployment with Auto-Provisioning

The Brocade ICX 7250 supports auto-provisioning, simplifying deployment with a truly plug-and-play experience. Organizations can use this feature to automate IP address and feature configuration of the switches without requiring a highly trained network engineer onsite. When the switches power up, they can automatically receive their IP addresses and configuration files from DHCP and Trivial File Transport Protocol (TFTP) servers. They also can automatically receive a software update to be at the same code revision as currently installed switches.

Open-Standards Management

The Brocade ICX 7250 includes an industry-standard Command Line Interface (CLI) and supports Secure Shell (SSHv2). Secure Copy (SCP). and SNMPv3 to restrict and encrypt management communications to the system. In addition, support for Terminal Access Controller Access Control System (TACACS/TACACS+) and RADIUS authentication helps ensure secure operator access.

SDN-Enabled Programmatic Control of the Network

Software-Defined Networking (SDN) is a powerful new network paradigm designed for the world's most demanding networking environments and promises breakthrough levels of customization. scale, and efficiency. The Brocade ICX 7250 enables SDN by supporting the OpenFlow 1.3 protocol, which allows communication between an OpenFlow controller and an OpenFlowenabled switch. Using this approach, organizations can control their networks programmatically, transforming the network into a platform for innovation through new network applications and services.

The Brocade ICX 7250 delivers
OpenFlow in true hybrid port mode, which allows organizations to simultaneously deploy traditional Layer 2/3 forwarding with OpenFlow on the same port. This unique capability provides a pragmatic path to SDN by enabling network administrators to progressively integrate OpenFlow into existing networks, giving them the programmatic control offered by SDN for specific flows while the remaining traffic is forwarded as before. Brocade ICX 7250 hardware support for OpenFlow enables organizations to apply these capabilities at line rate.

Plug-and-Play Operations for Powered Devices

Brocade ICX switches support the IEEE 802.1AB Link Layer Discovery Protocol (LLDP) and ANSI TIA 1057 Link Layer Discovery Protocol-Media Endpoint Discovery (LLDP-MED) standards that enable organizations to deploy interoperable multivendor solutions for Unified Communications (UC). Configuring IP endpoints such as VoIP phones can be a complex task, requiring manual and time-consuming

configuration. LLDP and LLDP-MED provide a standard, open method for configuring, discovering, and managing network infrastructure.

Unified Wired/Wireless Network Management with Brocade Network Advisor

Managing enterprise campus networks continues to become more complex due to the growth in services that rely on wired and wireless networks. Services such as Internet, e-mail, video conferencing, real-time collaboration, and distance learning all have specific configuration and management requirements. At the same time, organizations face increasing demand to provide uninterrupted services for high-quality voice and UC, wireless mobility, and multimedia applications. To reduce complexity and the time spent managing these environments, the easy-to-use Brocade Network Advisor discovers, manages, and deploys configurations to groups of IP devices. By using Brocade Network Advisor, organizations can configure Virtual LANs (VLANs) within the network, manage wireless access points, and execute commands on specific IP devices or groups of IP devices. sFlowbased proactive monitoring is ideal for performing network-wide troubleshooting, generating traffic reports, and gaining visibility into network activity from the edge to the core. Brocade Network Advisor centralizes management of the entire family of Brocade wired products and Aruba wireless products.

Data Center ToR Server Connectivity

The Brocade ICX 7250 is designed to fit in server racks by consuming only one rack unit. In data center environments where most servers are 1 GbE-capable, the Brocade ICX 7250 provides a compact and cost-effective 1 GbE Top-of-Rack (ToR) switch by simply connecting 1 GbE Network Interface Cards (NICs) in the servers to Brocade ICX 7250 1 GbE ports. This configuration uses 10 GbE links to connect to Brocade ICX data center aggregation switches.

Warranty

Brocade ICX 7250 Switches are covered by the Brocade Assurance* Limited Lifetime Warranty. For details, visit www.brocade.com/warranty.

Best-in-Class Support

The Brocade ICX 7250 Switch is supported by next-business-day advance replacement where available, as well as software defect repairs and maintenance updates. In an effort to further improve service levels and operational efficiency, Brocade includes three years of technical support for Brocade ICX 7250 Switches, providing direct 24×7 access to the Brocade Technical Assistance Center.

Brocade Global Services

Brocade Global Services has the expertise to help organizations build scalable, efficient cloud infrastructures. Leveraging 20 years of expertise in storage, networking, and virtualization, Brocade Global Services delivers world-class professional services, technical support, network monitoring services, and education, 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. 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.

BROCADE ICX 7250 SWITCH AND CONTROLLER INTEROPERABILITY

The Brocade ICX 7250 Switch operates seamlessly under the Brocade SDN Controller. This controller is a quality-assured edition of the OpenDaylight controller code supported by an established networking provider and its leaders within the OpenDaylight community.

Brocade ICX 7250 Feature/Model Comparison

	24 RJ-45 Ports	24 or 48 P	orts Non-PoE	24 or 48 F	PoE+ Ports
	Brocade ICX 7250-24G	Brocade ICX 7250-24	Brocade ICX 7250-48	Brocade ICX 7250-24P	Brocade ICX 7250-48P
Switching capacity (data rate, full duplex)	128 Gbps	208 Gbps	256 Gbps	208 Gbps	256 Gbps
Forwarding capacity (data rate, full duplex)	96 Mpps	154 Mpps	190 Mpps	154 Mpps	190 Mpps
Fixed ports: 10/100/1000 Mbps RJ-45	24	24	48	24	48
Fixed ports: 100/1000 Mbps SFP	4				
Fixed ports: 1/10 Gbps SFP+ (10 GbE SPF+ optional upgrade license)		8	8	8	8
Maximum PoE Class 3 ports (internal AC power supply only)	N/A	N/A	N/A	24	48
Maximum PoE+ ports (internal AC power supply only)	N/A	N/A	N/A	12	24
Maximum PoE+ ports (with external power supply)	N/A	N/A	N/A	24	48
Advanced IPv4/v6 L3 routing (RIP, OSPF)	N/A	with license	with license	with license	with license
Aggregated stacking bandwidth	N/A	480 Gbps	480 Gbps	480 Gbps	480 Gbps
Stacking density (maximum switches in a stack)	N/A	12	12	12	12
Maximum stacking distance (distance between stacked switches)	N/A	10 km	10 km	10 km	10 km
Power					
Power inlet (AC)			C14		
Input voltage/frequency		AC: 10	00 to 240 VAC @ 50) to 60 Hz	
Power supply rated maximum (AC)	135 W	135 W	135 W	525 W	880 W
PoE power budget (AC) (internal AC power supply only)	N/A	N/A	N/A	370 W	740 W
Switch power consumption (25°C) Idle (no PoE load)	33.6 W	42.6 W	50.64 W	50 W	66 W
10% traffic* (full PoE load)	42.6 W	51.6 W	63.55 W	63 W	84 W
100% traffic* (full PoE load)	44.4 W	57.6 W	69.51 W	73 W	96 W
Airflow	front-to-back	side-to-back	side-to-back	side-to-back	side-to-back
Switch heat dissipation (25°C) [‡] Idle (no PoE load)	114.6 BTU/Hr	145.3 BTU/Hr	172.7 BTU/Hr	170.6 BTU/Hr	225.2 BTU/Hr
10% traffic* (full PoE load)	145.3 BTU/Hr	176.06 BTU/Hr	216.8 BTU/Hr	214.9 BTU/Hr	286.6 BTU/Hr
100% traffic* (full PoE load)	151.4 BTU/Hr	196.5 BTU/Hr	237.1 BTU/Hr	249.08 BTU/Hr	327.5 BTU/Hr

[†] Traffic load on all ports connected with maximum possible PoE/PoE+ loads (if equipped). PoE power delivered to powered devices not included. [‡] PoE power not included in switch heat dissipation figures since the heat is not dissipated at the switch.

Brocade ICX 7250 Feature/Model Comparison (Continued)

	24 RJ-45 Ports	24 or 48 Ports No	on-PoE	24 or 48 PoE+ Ports	
Environment					
Weight (kg)	3.58	3.76	4.84	4.73	5.86
Dimensions 48 port: 440 mm (17.323 in.) W×370 mm (14.56 in.) D×43.7 mm (1.720 24 port: 440 mm (17.323 in.) W×280 mm (11.02 in.) D×43.7 mm (1.720 in.)					
Acoustics (25°C)	40 dB	41.9 dB	44.5 dB	44.7 dB	45.9 dB
MTBF (hours) (25°C)	767,718	676,362	665,319	429,209	411,187

Brocade ICX 7250 Specifications

Specifications			
Connector options	 10/100/1000 ports: RJ-45 1 Gbps SFP ports (Brocade ICX 7250-24G only) 1/10 Gbps SFP+ ports (not available on Brocade ICX 7250-24G) Out-of-band Ethernet management: 10/100/1000 Mbps RJ-45 Console management: Mini-USB serial port (Mini-B plug) File transfer: USB port (Standard-A plug) For the latest information about supported optics, please visit www.Brocade.com/Optics. 		
Maximum MAC addresses	16,000		
Maximum VLANs	4,095		
Maximum STP (spanning trees)	254		
Maximum routes (in hardware)	12,000		
Trunking	16		
Maximum jumbo frame size	9,216 bytes		
Average latency	1.5 µs		
QoS Priority Queues	8		
Layer 2 switching	 802.1s Multiple Spanning Tree 802.1x Authentication Auto MDI/MDIX BPDU Guard, Root Guard Dual-Mode VLANs MAC-based VLANs, Dynamic MAC-based VLAN activation Dynamic VLAN Assignment Dynamic Voice VLAN Assignment Fast Port Span GARP VLAN Registration Protocol IGMP Snooping (v1/v2/v3) IGMP Proxy for Static Groups IGMP Tracking Inter-Packet Gap (IPG) adjustment Link Fault Signaling (LFS) MAC Address Locking; MAC Port Security 	 MAC-Layer Filtering MAC Learning Disable MLD Snooping (v1/v2) Multi-device Authentication Per-VLAN Spanning Tree (PVST/PVST+/PVRST) Mirroring—Port-based, ACL-based, MAC Filter-based, and VLAN-based PIM-SM v2 Snooping Port Loop Detection Private VLAN Protocol VLAN (802.1v), Subnet VLAN Remote Fault Notification (RFN) Single-instance Spanning Tree Single-link LACP Trunk Groups Uni-Directional Link Detection (UDLD) 	

Brocade ICX 7250 Specifications (Continued)

	Digital Optical MonitoringDisplay Log Messages on Multiple TerminalsEmbedded Web Management	 Integration with HP OpenView for Sun Solaris, HP-UX, IBM AIX, and Windows Brocade Network Advisor
	Digital Optical Monitoring	 Integration with HP OpenView for Sun Solaris. HP-
	3 33 3	
J	Configuration Logging	Key-based activation of optional software features
	Auto Configuration	Industry-standard Command Line Interface (CLI)
Network and Device Managem	ent	
	rear arms state synemonization across the state	Hot insertion and removal of stacked units
High availability	 L3 VRRP protocol redundancy Real-time state synchronization across the stack 	 Hitless failover from master to standby stack controller
Lieb availability	limiting	a Hitlere faile or from reactor to standle category
-	Broadcast, multicast, and unknown unicast rate	Outbound rate limiting per port and per queue
Traffic management	ACL-based inbound rate limiting and traffic policies	Inbound rate limiting per port
RFC standards compliance	For a complete list of RFCs supported by the Brocade F visit www.brocade.com/fastironrfc .	astiron® software platform, please
	802.3ad Link Aggregation (Dynamic and Static)	802.1Q VLAN Tagging
	• 802.3ab 1000Base-T	• 802.3az-2010 - EEE
	• 802.310Base-T	• 802.3 MAU MIB (RFC 2239)
	802.1x Port-based Network Access Control	• 802.3z 1000Base-SX/LX
	802.1w Rapid Spanning Tree (RSTP)	802.3x Flow Control
	802.1s Multiple Spanning Tree	802.3u100Base-TX
	802.1p Mapping to Priority Queue	802.3at Power over Ethernet Plus
LLE Standards Compilance	802.1D-2004 MAC Bridging	802.3af Power over Ethernet
EEE standards compliance	802.1AB LLDP/LLDP-MED	802.3ae 10 Gigabit Ethernet
	DHCP Relay	of WRR and SP
	Classifying and Limiting Flows Based on TCP Flags	Robin (WRR), Strict Priority (SP), and a combination
	 ACL Mapping to Priority Queue ACL Mapping to ToS/DSCP 	 Priority Queue Management using Weighted Round
	ACL Mapping and Marking of 802.1p ACL Mapping to Priority Quality	 Monoring DSCP and 802.ip MAC Address Mapping to Priority Queue
Quality of Service (QoS)	ACL Mapping and Marking of ToS/DSCP ACL Mapping and Marking of 803 in	DiffServ SupportHonoring DSCP and 802.1p
Quality of Carriag (Q=Q)	<u> </u>	DiffSory Support
	VIAN Stacking (Q-in-Q)	- Topology aroups
Metro features	 Metro-Ring Protocol MRP (v1, v2) Virtual Switch Redundancy Protocol (VSRP) 	VRRP Topology Groups
Motro foaturos	Motro Ding Protocol MDD (41 v2)	• VRRP
	OpenFlow support with true hybrid port mode	Controller
SDN features	Support for OpenFlow v1.0 and v1.3	Operates seamlessly under the Brocade SDN
	IPv6 over IPv4 tunnels	
	VRRP-E	• RIPng
	Virtual Route Redundancy Protocol (VRRP)	• VRRP v3
	• RIP VI/V2 • OSPF v2	• OSPF v3
Premium Layer 3 IP routing	IPv4 and IPv6 dynamic routesRIP v1/v2	 PIM-SM, PIM-SSM, PIM-DM, PIM passive (IPv4/ IPv6 multicast routing functionality)
	L3/L4 ACLs Host routes	Routing between directly connected subnets
	Port-based Access Control Lists	Route-only support
	• ECMP	Routed interfaces
Base Layer 3 IP routing	 IPv4 and IPv6 static routes 	Virtual interfaces

Brocade ICX 7250 Specifications (Continued)

Management (continued)	Out-of-band Ethernet Management	RFC 2131 DHCP Server and DHCP Relay		
	 ERSPAN support for remote traffic monitoring 	RFC 2570 SNMPv3 Intro to Framework		
	• RFC 783 TFTP	RFC 2571 Architecture for Describing SNMP Framework		
	RFC 854 TELNET Client and Server DEC 051 Backs	RFC 2572 SNMP Message Processing and		
	RFC 951 BootpRFC 1157 SNMPv1/v2c	Dispatching		
	• RFC 1213 MIB-II	RFC 2573 SNMPv3 Applications		
	RFC 1493 Bridge MIB	RFC 2574 SNMPv3 User-based Security Model		
	RFC 1516 Repeater MIB	RFC 2575 SNMP View-based Access Control Model		
	RFC 1573 SNMP MIB II	SNMP		
	RFC 1643 Ethernet Interface MIB	RFC 2818 Embedded HTTPS		
	• RFC 1724 RIP v1/v2 MIB	• RFC 3176 sFlow		
	• RFC 1757 RMON MIB	 SNTP Simple Network Time Protocol 		
	RFC 2068 Embedded HTTP	Multiple Syslog Servers		
Security	802.1X Accounting	Advanced Encryption Standard (AES) with SSHv2		
	MAC Authentication	• RADIUS/TACACS/TACACS+		
	DHCP snooping	Secure Copy (SCP)		
	Dynamic ARP inspection	Secure Shell (SSHv2)		
	Bi-level Access Mode (Standard and EXEC Level)	Username/Password		
	EAP pass-through support	Web authentication		
	• IEEE 802.1X username export in sFlow	Change of Authorization (CoA) RFC 5176		
	Protection against Denial of Service (DoS) attacks	Flexible authentication		
	Authentication, Authorization, and Accounting (AAA)			
Environment				
Temperature	• Operating temperature: -5°C to 50°C/23°F to 122°F			
	Storage temperature: -25°C to 70°C/-13°F to 158°F			
Humidity	 Operating relative humidity: 5% to 95% at 50°C, non- 	condensing		
	• Non-operating relative humidity: 0% to 95% at 70°C, I	non-condensing		
Altitude	Operating altitude: 10,000 ft (3,000 m) maximum			
	Storage altitude: 39,000 ft (12,000 m) maximum			
Compliance/Certification				
Electromagnetic emissions	FCC Class A (Part 15); EN 55022/CISPR-22 Class A; \AS/NZS 55022; EN 61000-3-2 Power Line Harmonic 61000-6-3 Emission Standard (supersedes: EN 5008	cs; EN 61000-3-3 Voltage Fluctuation and Flicker; EN		
Safety	CAN/CSA-C22.2 NO. 60950-1-07; UL 60950-1 Sec	ond Edition; IEC 60950-1 Second Edition; EN		
	60950-1:2006 Safety of Information Technology Equi 1: Equipment Classification, Requirements and User's G Safety of Optical Fibre Communication Systems			
Immunity	EN 61000-6-1 Generic Immunity and Susceptibility (su	upersedes EN 50082-1); EN 55024 Immunity		
	Characteristics (supersedes EN 61000-4-2 ESD); EN 6 Electromagnetic Field; EN 61000-4-4 Electrical Fast T Conducted Disturbances Induced by Radio-Frequency Field; EN 61000-4-11 Voltage Dips and Sags	ransient; EN 61000-4-5 Surge; EN 61000-4-6		
Environmental regulatory compliance	RoHS-compliant (6 of 6); WEEE-compliant			
Vibration	IEC 68-2-36, IEC 68-2-6			
Shock and drop	IEC 68-2-27, IEC 68-2-32			

Brocade ICX 7250 Ordering Information

Part Number	Description
Brocade ICX 7250 Switches	
ICX7250-24G	Brocade ICX 7250 Switch 24-port, 4×1 GbE (basic, non-upgradable switch) with front-to-back airflow, no EPS connector
ICX7250-24	Brocade ICX 7250 Switch 24-port, 8×1/10 GbE, no 10 GbE PoD license preloaded, with side-to-back airflow
ICX7250-24P	Brocade ICX 7250 Switch 24-port PoE, 8×1/10 GbE, no 10 GbE PoD license preloaded, with side-to-back airflow
ICX7250-48	Brocade ICX 7250 Switch 48-port, 8×1/10 GbE, no 10 GbE PoD license preloaded, with side-to-back airflow
ICX7250-48P	Brocade ICX 7250 Switch 48-port PoE, 8×1/10 GbE, no 10 GbE PoD license preloaded, with side-to-back airflow
Switches	With 2×10 GbE PoD Licenses
ICX7250-24-2X10G	Brocade ICX 7250 Switch 24-port, 8×1/10 GbE, 2×10 GbE PoD license preloaded
ICX7250-24P-2X10G	Brocade ICX 7250 Switch 24-port PoE, 8×1/10 GbE, 2×10 GbE PoD license preloaded
ICX7250-48-2X10G	Brocade ICX 7250 Switch 48-port, 8×1/10 GbE, 2×10 GbE PoD license preloaded
ICX7250-48P-2X10G	Brocade ICX 7250 Switch 48-port PoE, 8×1/10 GbE, 2×10 GbE PoD license preloaded
	nal Power Supply Options for the Brocade ICX 7250 Switch pports up to four removable power supplies. Each power supply provides 920 W.
ICX-EPS4000-SHELF	1U EPS
RPS17	EPS power supply, 920 W
ICX-EPS4000-CBL-01	Brocade ICX-EPS4000 power cable 1:1
ICX-EPS4000-CBL-02	Brocade ICX-EPS4000 power cable 1:2
Feature License and Accessorie	es
ICX7250-PREM-LIC	Brocade ICX 7250 Layer 3 Premium software license (non-node lock)
ICX7250-2X10G-LIC-POD	2×10 GbE PoD license (node lock)—upgrade uplink/stacking ports from 8×1 GbE to 2×1 GbE/10 GbE + 6×1 GbE
ICX7250-8X10G-LIC-POD	Upgrade uplink/stacking ports from 2×1 GbE/10 GbE + 6×1 GbE to 8×1 GbE/10 GbE (node lock)
ICX7000-RMK	FRU, rack mount kit, two-post, Brocade ICX 7750/7450
XBR-R000295	FRU, rack mount kit, four-post, 24 in. to 32 in. depth rack
BR-NTWADV-IP-BASE	Brocade Network Advisor IP management software license for up to 50 devices; required for initial purchase of IP-only management; minimum of one year of support required
Optics	For Brocade ICX 7250-24G Only
E1MG-BXD	1000BASE-BXD SFP optic SMF, transmits at 1,490 nm and receives at 1,310 nm, LC connector, single strand SMF fiber. This optic should only be connected to an E1MG-BXU at the far end.
E1MG-BXU	1000BASE-BXU SFP optic SMF, transmits at 1,310 nm and receives at 1,490 nm, LC connector, single strand SMF fiber. This optic should only be connected to an E1MG-BXD at the far end.
E1MG-LHA-OM-T	1000BASE-LHA SFP optic, SMF, LC connector, optical monitoring capable (70 km), industrial temperature
E1MG-LX-OM	1000BASE-LX SFP optic, SMF, LC connector, optical monitoring capable
E1MG-SX-OM	1000BASE-SX SFP optic, MMF, LC connector, optical monitoring capable
E1MG-TX	1000BASE-TX SFP copper, RJ-45 connector

Brocade ICX 7250 Ordering Information (Continued)

Optics	For Brocade ICX 7250-24/24P/48/48P
10G-SFPP-ER	10GBASE-ER SFP+ optic (LC), for up to 40 km over SMF
10G-SFPP-LR	10GBASE-LR, SFP+ optic (LC), for up to 10 km over SMF
10G-SFPP-SR	10GBASE-SR, SFP+ optic (LC), target range 300 m over MMF
10G-SFPP-USR	10GE USR SFP+ optic (LC), target range 100 m over MMF, 1-pack
10G-SFPP-ZR	10GBASE-ZR SFP+ optic (LC), for up to 80 km over SMF
E1MG-BXD	1000BASE-BXD SFP optic SMF, transmits at 1,490 nm and receives at 1,310 nm, LC connector, single strand SMF fiber. This optic should only be connected to an E1MG-BXU at the far end.
E1MG-BXU	1000BASE-BXU SFP optic SMF, transmits at 1,310 nm and receives at 1,490 nm, LC connector, single strand SMF fiber. This optic should only be connected to an E1MG-BXD at the far end.
E1MG-LHA-OM-T	1000BASE-LHA SFP optic, SMF, LC connector, optical monitoring capable (70 km), industrial temperature
E1MG-LX-OM	1000BASE-LX SFP optic, SMF, LC connector, optical monitoring capable
E1MG-SX-OM	1000BASE-SX SFP optic, MMF, LC connector, optical monitoring capable
E1MG-TX	1000BASE-TX SFP Copper, RJ-45 connector
Direct-Attached Cables	For Brocade ICX 7250-24/24P/48/48P
10G-SFPP-TWX-0101	Direct-attached SFP+ copper cable, 1 m, 1-pack, active
10G-SFPP-TWX-0301	Direct-attached SFP+ copper cable, 3 m, 1-pack, active
10G-SFPP-TWX-0501	Direct-attached SFP+ copper cable, 5 m, 1-pack, active
10GE-SFPP-AOC-0701	10 GbE SFP+ direct-attached active optical cable, 7m, 1-pack
10GE-SFPP-AOC-1001	10 GbE SFP+ direct-attached active optical cable, 10 m, 1-pack
1G-SFP-TWX-0101	Direct-attached 1 GbE SFP copper cable, 1 m
1G-SFP-TWX-0501	Direct-attached 1 GbE SFP copper cable, 5 m

For a list of cables and fiber optics approved for stacking, visit www.brocade.com/fastironstacking.

Ordering Instructions

Customers have two options when ordering a Brocade ICX 7250 Switch. They can order one of the five Brocade ICX 7250 Switch models with 1 GbE uplink/stacking ports, or order a switch preloaded with a PoD license for two 10 GbE uplink/stacking ports.

The Brocade ICX 7250 (-24/-24P/-48/-48P) can be upgraded to 2×10 GbE uplink/stacking ports by purchasing a PoD license (ICX7250-2X10G-LIC-POD).

A Brocade ICX 7250 Switch with 2×10 GbE uplink/stacking ports can be upgraded to 8×10 GbE by purchasing an additional PoD license (ICX7250-8X10G-LIC-POD). Only switches that already have 2×10 GbE can be upgraded to 8×10 GbE.

Note that the Brocade ICX 7250-24G Switch is not upgradable and will support 4×1 GbE uplink ports only.

All Brocade ICX 7250 Switches include a power cord, two-post rack mounting brackets, and a USB serial console cable. Stacking cables must be ordered separately.

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