

Brocade ICX Switch Family



HIGHLIGHTS

- Provides a complete range of fixed form-factor enterprise-class switches that work together to deliver innovative access, aggregation, and core network solutions
- Features a scale-out networking architecture to incrementally add ports across the campus when and where needed, in a cost-effective manner
- Leverages open standards-based technology to aggregate Brocade ICX switches into a single logical switch using QSFP+ or SFP+ ports and optics over distances up to 10 km
- Consolidates management by eliminating unnecessary network layers and individual switch touch points, resulting in reduced maintenance time and costs
- Maximizes investment through shared network services that allow premium and entry-level switches to share advanced Layer 2/3 network services

Scalable Fixed Form-Factor Switches for Next-Generation IP Networks

The Brocade® ICX® family of fixed form-factor switches works together to deliver a complete, scalable, and high-performance network solution that supports today's demanding video, Unified Communications (UC), VDI, and mobile applications. In addition, they leverage the innovative Brocade HyperEdge® Architecture, which provides simplified network deployment and management, scale-out networking, and investment protection with the industry's lowest total cost of ownership.

Brocade HyperEdge Architecture

The Brocade HyperEdge Architecture increases organizational agility by bringing the campus network into the modern era. This evolutionary architecture removes the complexity of legacy campus architectures by collapsing unnecessary network layers and removing legacy protocols, such as spanning tree with inactive links. The HyperEdge Architecture also integrates innovative new features with existing network technologies to streamline application deployment, simplify management, and reduce operational costs.

HyperEdge Architecture Key Design Principles

The Brocade HyperEdge Architecture employs three design principles to modernize and simplify the network, enabling better business agility and productivity:

- **Consolidated management:** Reduces unnecessary network layers to create large HyperEdge management domains that eliminate individual switch touch points, easing maintenance time and costs.
- **Shared network services:** Allows premium and entry-level switches that share a common HyperEdge management domain to also share advanced Layer 2/3 services, achieving lower price-per-port functionality.

- **Scale-out networking:** Integrates high-performance, fixed form-factor switches to create a single logical device that is independent of physical location and allows organizations to scale ports when and where needed across the campus.

HyperEdge Architecture Implementation Options

The Brocade HyperEdge Architecture provides a flexible, distributed chassis configuration using the Brocade ICX family of high-performance, fixed switches, instead of bulky, rigid modular chassis systems. Organizations can mix and match individual switches with the features and capabilities needed to meet specific requirements at each location, then combine them using either the Brocade Mixed Stack or Brocade Switch Port Extender* enabling technologies to create a customized, distributed chassis designed for their requirements. As requirements change, organizations can simply and easily add switches to the distributed chassis while maintaining the consolidated management, shared services, and scale-out networking within a single HyperEdge domain.

Brocade offers multiple implementation options to achieve the benefits of the HyperEdge Architecture design principles (see Figure 1), including:

- **Mixed Stack:** Integrates premium and entry-level Brocade ICX 6610 and 6430/6450 Switches to collapse the network access and aggregation layers into a single HyperEdge domain that shares network services while reducing management touch points and network hops.
- **Switch Port Extender:** Integrates Brocade ICX 7250, 7450, and 7750 stackable switches to collapse the network access, aggregation, and core layers into a single HyperEdge domain. This provides the density and reliability of large chassis switches at a fraction of the cost, while distributing ports where needed on the campus.

These implementation options can also be integrated into an existing legacy network for incremental adoption. As Brocade continues to further develop and expand the HyperEdge Architecture, new implementation options will become available that deliver the benefits of

consolidated management, shared services, and scale-out networking across an ever-increasing number of network ports.

HyperEdge Mixed Stack Deployment

The Mixed Stack enabling technology, offered for Brocade ICX 6610 and 6430/6450 Switches, integrates premium Brocade ICX 6610 and entry-level Brocade ICX 6450 Switches to collapse the network access and aggregation layers into a single HyperEdge domain. This domain shares network services while reducing management touch points and network hops (due to fewer network layers) as compared to legacy three-tier designs.

Mixed stacking provides all the benefits of traditional stacking, in which all switch members are alike, all links within the stack are active (no Spanning Tree Protocol [STP]), and management is accomplished from a single IP address. However, by adding the unique capability to share network services between switches, a HyperEdge mixed stack becomes a powerful solution. HyperEdge shared services enable the extension of premium switch services to all ports of all members of the stack, including entry-level switches. This capability provides two distinct advantages: significant per-port cost reduction and long-term investment protection.

HyperEdge Switch Port Extender Deployment

Brocade Switch Port Extender* 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 a single HyperEdge domain. This domain shares network services while reducing management touch points and network hops through a single layer design spanning the

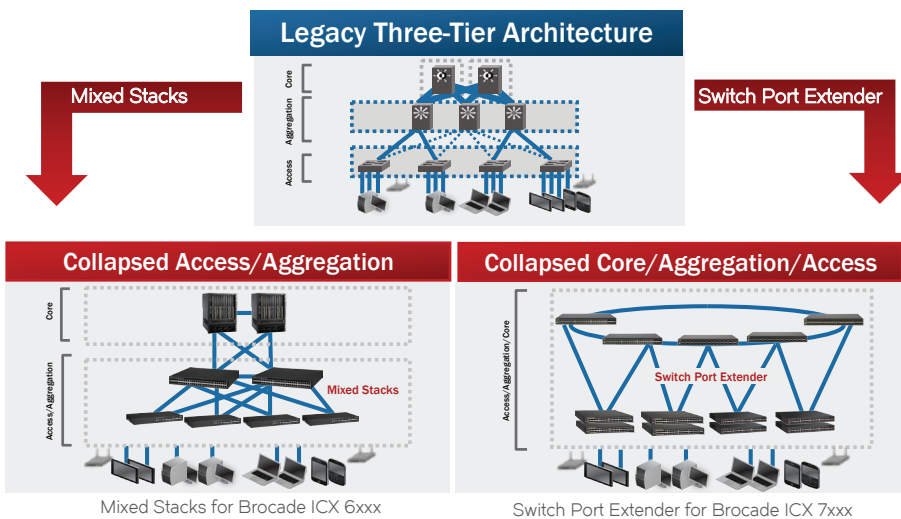


Figure 1: Simplifying legacy three-tier architectures with Brocade HyperEdge Architecture implementation options.

* Support to be available in a future release.

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. As a result, Switch Port Extender offers a level of flexibility, ease of deployment, and total cost of ownership unmatched by traditional access, aggregation, and small-core chassis solutions.

Brocade ICX switches support Distributed Chassis deployment models that use standards-based optics and cabling interface connections to 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.

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. Brocade ICX switches enable SDN by supporting the OpenFlow 1.3¹ protocol, which allows communication between an OpenFlow controller and an OpenFlow-enabled switch. Using this approach, organizations can control their networks programmatically, transforming the network into a platform for innovation through new network applications and services.

Brocade ICX switches deliver 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 hardware support for OpenFlow enables organizations to apply these capabilities at line rate.

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 Unified Communications (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. sFlow-based 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 third-party wireless products.

Flexible, Long-Distance Stacking for the Most Demanding Enterprise Environments

Brocade stacking technology makes it possible to stack up to 12 Brocade ICX switches into a single logical switch using standard SFP+ or QSFP+ Ethernet connections. This allows Brocade ICX switches to provide class-leading backplane bandwidth, between 80 Gbps and 240 Gbps, as well as simple and robust expandability for future growth at the network edge (see Figure 3).

A selection of standard SFP+ and QSFP+ copper cables or optics can be used to stack Brocade ICX switches together, enabling stacking over distances of up to 10 km and thereby eliminating the need for stacked switches to be colocated in the same wiring closet. This stacked logical switch also has only a single IP address to simplify management and offers transparent STP-free traffic forwarding and shared Link Aggregation Groups (LAG) across a pool of up to 576 1 GbE or 10 GbE ports (depending on the platform deployed). When new switches join the stack, they automatically inherit the stack's existing configuration file, enabling true plug-and-play network expansion.

Brocade stacking technology also delivers high availability, enabling instantaneous hitless failover to a standby stack controller if the master stack controller fails. In addition, organizations can use hot-insertion and removal of stack members to avoid interrupting network services.

Simplified, Open Standards-Based Management and Monitoring

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

¹ Available on select Brocade ICX switches today; future availability for other Brocade ICX switches.



Figure 3: Brocade ICX switches can be stacked together using standard SFP+ or QSFP+ ports and optics to create a single logical device over distances up to 10 Km

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 Brocade ICX switches, 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-Configuration

Brocade ICX switches support auto-configuration, 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 automatically receive an IP address and configuration from DHCP and Trivial File Transport Protocol (TFTP) servers. At this time, the switches can also automatically receive a software update to be at the same code revision as currently installed switches.

Open Standards Management

Brocade ICX switches include an industry-standard Command Line Interface (CLI) and support 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.

Enterprise-Class Availability

When every second matters, Brocade ICX 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.

In addition to stack-level high availability, Brocade ICX switches include system-level high-availability features, such as dual hot-swappable, load-sharing, and redundant power supplies (depending on the platform deployed). The modular design also has dual hot-swappable fan trays. These features provide another level of availability for the campus wiring closet, all in a compact form factor. Additional design features include intake and exhaust temperature sensors and fan spin detection to quickly identify abnormal or failed operating conditions—helping to minimize mean time to repair.

Overview of Brocade ICX Switches

	ACCESS						ACC/AGG	AGG/CORE
	Brocade ICX 6430-C	Brocade ICX 6430	Brocade ICX 6450-C	Brocade ICX 6450	Brocade ICX 7250	Brocade ICX 7450	Brocade ICX 6610	Brocade ICX 7750
Switch Capacity								
Switching capacity (max)	32 Gbps	104 Gbps	32 Gbps	176 Gbps	256 Gbps	336 Gbps	576 Gbps	2,560 Gbps
1 GbE RJ-45 ports (max)	14	48	14	48	48	48	48	48
1 GbE SFP ports (max)	2	4	2	4	8	48	24	48
10 GbE SFP+ ports (max)				4	8	12	8	96
10 GbE RJ-45 ports (max)						12		48
40 GbE QSFP ports (max)						3	4 ¹	32
Switches per stack (max)		4		8	12	12	8	12
Aggregated stacking bandwidth		16 Gbps		320 Gbps	480 Gbps	960 Gbps	1,230 Gbps	2,880 Gbps
Key Features								
PoE/PoE+	●	●	●	●	●	●	●	
Redundant power option		●	●	●	●	●	●	●
Stacking		●		●	●	●	●	●
sFlow			●	●	●	●	●	●
L3 capability (IPv4, Unicast)			●	●	●	●	●	●
OpenFlow				● ³	● ²	●	●	●
EEE					●	●		
Mixed Stack				●			●	
Switch Port Extender					● ²	● ²		● ²
Advanced L3 (IPv4 and IPv6, Multicast)					● ²	●	●	●
- RIP/OSPF					● ²	●	●	●
- BGP						●	●	●
- VRF						●	●	●
MACsec						●	●	
Hot-swappable power supplies and fans						●	●	●
PoH (95 W)						●		
Front-to-back or back-to-front airflow						●	●	●

¹The Brocade ICX 6610 offers four QSFP+ dedicated stacking ports. ²To be supported in a future software release. ³OpenFlow support in a Brocade ICX 6450/6610 mixed stack configuration.

A Complete Line of Products for Campus Access, Aggregation, and Core Deployment

With the innovative Brocade ICX family of enterprise network switches, Brocade is making The Effortless Network® a reality. Brocade ICX switches support the Brocade HyperEdge Architecture and are designed to work together to deliver consolidated network management and services sharing between premium and entry-level switches—reducing both complexity and costs while protecting capital investments.

Brocade ICX 6430/6450

Brocade ICX 6430 and 6450 Switches provide 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 6430 and 6450 are available in 12-, 24-, and 48-port 10/100/1000 Mbps models and 1 GbE or 10 GbE dual-purpose uplink/stacking ports with or without Power over Ethernet (PoE) to support enterprise edge networking, wireless mobility, and IP communications.

Brocade ICX 6430-C and 6450-C Compact Switches with fanless design are ideal for deployment outside the wiring closet. The Brocade ICX 6450-C can be powered from its internal power supply or with PoE/PoE+ through its two RJ-45 uplink ports, enabling the switch to be deployed in environments where no AC power outlet is present. Both switches offer two 1 GbE RJ-45 and two 1 GbE SFP ports for uplink and 12 1 GbE RJ-45 ports with four PoE/PoE+ capable ports.

Brocade ICX 6430/6450 Switches



Brocade ICX 6430/6450 Switches offer a single integrated power supply and fan, one RJ-45 network management port, one mini USB serial management port, and one USB storage port.

Brocade ICX 6430-C12	12-port 1 GbE compact switch (4 PoE+), 2×100 Mbps/1 GbE SFP and 2×100 Mbps/1 GbE copper uplinks, fanless
Brocade ICX 6430-24	24-port 1 GbE switch with 4×1 GbE SFP uplink/stacking ports, fanless
Brocade ICX 6430-24P	Same as above with the addition of PoE/PoE+ support
Brocade ICX 6430-48	48-port 1 GbE switch with 4×1 GbE SFP uplink/stacking ports
Brocade ICX 6430-48P	Same as above with the addition of PoE/PoE+ support
Brocade ICX 6450-C12-PD	12-port 1 GbE compact switch (4 PoE+) with 2×100 Mbps/1 GbE SFP and 2×100 Mbps/1 GbE copper uplinks, fanless, Layer 3, PoE-powered
Brocade ICX 6450-24	24-port 1 GbE switch with 2×1 GbE SFP+ (upgradable to 10 GbE) and 2×1/10 GbE SFP+ uplink/stacking ports
Brocade ICX 6450-24P	Same as above with the addition of PoE/PoE+ support
Brocade ICX 6450-48	48-port 1 GbE switch, 2×1 GbE SFP+ (upgradable to 10 GbE) and 2×1/10 GbE SFP+ uplink/stacking ports
Brocade ICX 6450-48P	Same as above with the addition of PoE/PoE+ support

Brocade ICX 6430/6450 External Power Supply Options

The optional Brocade ICX 6400-EPS1500 is an external power supply source to provide additional power for up to three Brocade ICX 6430/6450 Switches. It can be used for system power redundancy and increased PoE/PoE+ power budget.

ICX6400-EPS1500	Brocade ICX 6430/6450 1,500 W external power supply for RPS/EPs (connect up to three switches)
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Brocade ICX 7250 Switches



Except as noted, all Brocade ICX 7250 Switches 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	24x10/100/1000 Mbps RJ-45 ports, with 4x1 GbE uplink ports
Brocade ICX 7250-24	24x10/100/1000 Mbps RJ-45 ports with 8x1 GbE uplink/stacking ports upgradable to 10 GbE
Brocade ICX 7250-24P	Same as above with the addition of PoE/PoE+ support
Brocade ICX 7250-48	48x10/100/1000 Mbps RJ-45 ports with 8x1 GbE uplink/stacking ports upgradable to 10 GbE
Brocade ICX 7250-48P	Same as above with the addition of PoE/PoE+ support

Brocade ICX 7250 External Power Supply Options

The optional Brocade ICX-EPS4000 is an external power supply source to provide additional power for up to 16 Brocade ICX 7250 Switches. It can be used for system power redundancy and increased PoE/PoE+ power budget.

ICX-EPS4000-SHELF	1U EPS external chassis that can accept up to 4 individual power supplies
RPS17 power supply	920 W AC power supply for EPS 4000 chassis

Brocade ICX 7250

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 8x10 GbE ports for uplinks or stacking and market-leading stacking density with up to 12 switches (576x1 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.

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 is available in 24- and 48-port 10/100/1000 Mbps models with 1 GbE or 10 GbE dual-purpose uplink/stacking ports—with or without IEEE 802.3af PoE and 802.3at PoE+—to support enterprise edge networking, wireless mobility, and IP communications without the need for additional power outlets or power injectors.

Brocade ICX 7450

The Brocade ICX 7450 Switch offers the performance, flexibility, and scalability required for enterprise Gigabit Ethernet (GbE) access deployment. It delivers market-leading stacking density with up to 12 switches (576 1 GbE and 48 10 GbE ports) per stack and combines chassis-level performance and reliability with the flexibility, cost-effectiveness, and “pay as you grow” scalability of a stackable solution. In addition, this stackable switch is the first in its class to offer 40 GbE uplinks, enabling enterprises to dramatically increase their network capacity while using their existing optical wire infrastructure.

The unique design of the Brocade ICX 7450 provides three modular slots, offering up to 12 1/10 GbE SFP/SFP+ ports, 12 10GBASE-T ports, or up to three 40 GbE QSFP+ ports for uplink or stacking. As a result, the Brocade ICX 7450 can easily deliver sufficient bandwidth between the edge and aggregation layers to support expanding video traffic, VDI adoption, and high-speed wireless 802.11ac deployment.

The Brocade ICX 7450 is an ideal network solution for campus network 1 GbE access or small aggregation deployment with 10 GbE or 40 GbE uplinks to the core. The Brocade ICX 7450 also makes a very suitable data center Top-of-Rack (ToR) solution, delivering a mix of 1 GbE and 10 GbE server connectivity ports with 10 GbE or 40 GbE uplinks to the data center aggregation or core.

Brocade ICX 7450 Switches



The Brocade ICX 7450 is available in five different models, offering three modular slots for interchangeable uplink/stacking modules (one in the front, two in the back), dual power supply slots, dual fan trays, one RJ-45 network management port, one mini USB serial management port, and one USB storage port on the front panel.

Brocade ICX 7450-24	24x10/100/1000 Mbps RJ-45 ports
Brocade ICX 7450-24P	Same as above with the addition of PoE/PoE+ support and with 8 pre-assigned ports supporting PoH (95 W)
Brocade ICX 7450-48	48x10/100/1000 Mbps RJ-45 ports
Brocade ICX 7450-48P	Same as above with the addition of PoE/PoE+ support and with 8 pre-assigned ports supporting PoH (95 W)
Brocade ICX 7450-48F	48x100/1000 Mbps SFP ports

Brocade ICX 7450 Port Module Options

Four different optional port modules are offered for Brocade ICX switches. Except as noted, these modules are interchangeable and can be installed in any of the three modular slots within Brocade ICX switches.

ICX7400-4X1GF module	4-port 100 Mbps/1 GbE SFP
ICX7400-4X10GF module	4-port 1/10 GbE SFP/SFP+
ICX7400-4X10GC module	4-port 1/10 GbE 10GBASE-T copper
ICX7400-1X40GQ module	1-port 40 GbE QSFP+ for uplink or stacking

Brocade ICX 7450 Power Supply Options

The Brocade ICX 7450 offers a selection of PoE/non-PoE and AC/DC power supply options with front-to-back or back-to-front airflow cooling options. The DC power supply can be installed in either PoE or non-PoE switches.

RPS15 power supply	Non-PoE 250 W AC offered with back-to-front or front-to-back airflow models
RPS16 power supply	PoE 1,000 W AC offered with back-to-front or front-to-back airflow models
RPS16DC power supply	PoE 510 W DC offered with back-to-front or front-to-back airflow models

Brocade ICX 6610 switches



The Brocade ICX 6610 is available in five models, all offering two slots for load-sharing, redundant power supplies, dual redundant fan trays, one RJ-45 network management port, one mini USB serial management port, and one USB storage port.

Each switch comes with 8x1 GbE SFP uplink ports upgradable to 8x10 GbE SFP+ ports, and 4x40 Gbps QSFP+ ports in back of the unit dedicated to stacking.

Brocade ICX 6610-24	24x10/100/1000 Mbps RJ-45 ports
Brocade ICX 6610-24P	Same as above with the addition of PoE/PoE+ support
Brocade ICX 6610-48	48x10/100/1000 Mbps RJ-45 ports
Brocade ICX 6610-48P	Same as above with the addition of PoE/PoE+ support
Brocade ICX 6610-24F	24x100/1000 Mbps SFP ports

Brocade ICX 6610 Port Options

The Brocade ICX 6610 offers a “bandwidth on demand” license upgrade.

4x10 GbE license upgrade	License to upgrade 4 ports of 1 GbE SFPP uplink to 10 GbE
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Brocade ICX 6610 Power Supply Options

Brocade ICX switches offer a selection of PoE/non-PoE and AC/DC power supply options with front-to-back or back-to-front airflow cooling options. The DC power supply can be installed in either PoE or non-PoE switches.

RPS15 power supply	Non-PoE 250 W AC offered with back-to-front or front-to-back airflow models
RPS16 power supply	PoE 1,000 W AC offered with back-to-front or front-to-back airflow models
RPS16DC power supply	PoE 510 W DC offered with back-to-front or front-to-back airflow models

Brocade ICX 6610

The Brocade ICX 6610 Switch provides unprecedented levels of performance, availability, and flexibility in a stackable form factor for 1 GbE access solutions. It delivers wire-speed, non-blocking performance across all ports to support latency-sensitive applications such as real-time voice/video streaming and VDI. In addition, each switch can provide up to eight 10 Gigabit Ethernet (GbE) ports for high-speed connectivity to the aggregation or core layers. Brocade ICX 6610 Switches can be stacked using four full-duplex 40 Gbps stacking ports that provide an unprecedented 1,230 Gbps of aggregated stacking bandwidth with full redundancy, eliminating inter-switch bottlenecks.

Brocade ICX 7750

The Brocade ICX 7750 Switch delivers industry-leading 10/40 GbE port density, advanced high-availability capabilities, and flexible stacking architecture, making it the most robust Brocade aggregation and core distributed chassis switch offering for enterprise LANs. In addition to rich Layer 3 features, the Brocade ICX 7750 supports 12-unit distributed-chassis stacking or Multi-Chassis Trunking (MCT) and is an integral part of the Brocade HyperEdge Architecture for campus LANs.

Part of the Brocade ICX family of Ethernet switches for campus LAN and classic Ethernet data center environments, the Brocade ICX 7750 Switch is a 1U high-performance, high-availability, and market-leading-density 10/40 GbE solution that meets the needs of business-sensitive campus deployments and classic Ethernet data center environments. With industry-leading price/performance and a low-latency, cut-through, non-blocking architecture, the Brocade ICX 7750 provides a cost-effective, robust solution for the most demanding deployments.

Brocade ICX 7750 Switches



All Brocade ICX 7750 Switches offer two slots for load-sharing, redundant power supplies, four fan slots, one RJ-45 network management port, one mini USB serial management port, and one USB storage port.

Brocade ICX 7750-26Q	26×40 GbE QSFP+ ports
Brocade ICX 7750-48F	48×1/10 GbE SFP+ ports and 6×40 GbE QSFP ports
Brocade ICX 7750-48C	48×1/10 GbE RJ-45 10GBASE-T ports and 6×40 GbE QSFP ports

Brocade ICX 7750 Port Options

All Brocade ICX 7750 Switches offer one modular interface slot in the back of the unit for additional ports.

ICX7750-6Q module	6×40 GbE QSFP+ module
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Brocade ICX 7750 Power Supply Options

The Brocade ICX 7750 offers a selection of AC/DC power supply options with front-to-back or back-to-front airflow cooling options.

RPS9 power supply	500 W AC power supply
RPS9DC power supply	500 W DC power supply

Warranty

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

Maximum Operational Efficiency and Investment Protection

To further improve operational efficiency, Brocade ICX switches come with up to three years[†] of free technical support from the Brocade Technical Assistance Center and free software updates. With these capabilities, organizations gain peace of mind while freeing up IT budget and resources to grow their businesses.

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, 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.

[†] Check individual product data sheet for applicability.

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