



BENEFITS

UPGRADABLE, FLEXIBLE ARCHITECTURE

- Multi-purpose switches, can be deployed standalone, stacked or in a campus fabric.
- Upgradable uplink/stacking ports from 1 GbE to 10 GbE

INDUSTRY LEADING PRICE/PERFORMANCE

- Entry-level access switches offering unprecedented capabilities
- High-performance stackable aggregation and core switches deliver more for less

SCALE-OUT FABRIC BASED ARCHITECTURE REDUCES COST OF OPERATIONS

- Ruckus Campus Fabric technology is supported on all ICX 7000 models
- IEEE 802.1BR, standard based fabric technology
- Delivers the benefits of a chassis with the flexibility of stackable switches

UNIQUE STACKING CAPABILITIES SIMPLIFIES MANAGEMENT ACROSS THE CAMPUS

- Stack over long distances using standard Ethernet optics
- Superior scalability up to 12 switches per stack
- Aggregation and core ICX switches also support stacking for unmatched scalability

MULTIGIGABIT ETHERNET ENABLES NEXT GENERATION WIRELESS DEPLOYMENT

- IEEE 802.3bz standard based Multigigabit Ethernet support
- Optimizes next-generation 802.11ac wave 2 wireless AP deployment, increasing performance while reducing cost

The Ruckus® ICX® fixed form-factor switch families work together to deliver a simple secure and scalable high-performance enterprise network solution supporting today's demanding video, Unified Communications (UC), VDI, and wireless access requirements.

In today's "mobile-first" world, the campus network has taken on a new role as a critical underlay for wireless traffic. Support for wireless networking is at the core of the ICX family design. ICX switches high PoE budgets and support for PoE+ and PoH will power the new generations of wireless APs, surveillance cameras, video displays and other devices for years to come. All ICX switches offers 10GbE uplinks options at the entry-level and 40GbE at the mid-range to eliminate bottlenecks between network layers and ensure a smooth user experience in high-density wireless environments.

ICX multi-purpose switches can be deployed standalone, stacked or within a campus fabric. Together they comprise the building blocks for simplified network deployment and management, scale-out networking, and investment protection with the industry's lowest total cost of ownership. The ICX switches can be deployed in homogeneous stacks using local or long distance links of up to 10km for maximum flexibility. When configured to work with innovative Ruckus Campus Fabric technology, customers can mix and match ICX switches to build highly converged networks that simplifies deployment and management and improves operational efficiency.

ICX SWITCHES TAKE STACKING TO THE NEXT LEVEL

Ruckus ICX fixed form factor switches go beyond traditional stacking to offer capabilities that take flexibility, ease of management and cost effectiveness to the next level.

- Stacking on standard Ethernet ports: Unlike traditional stackable switches, ICX switches do not rely on proprietary stacking ports and stacking cables. Stacking is supported over standard 10Gbps SFP+ or 40Gbps QSFP+ Ethernet ports. The same ports can be configured for stacking or to forward uplink traffic. This provides a level of flexibility unavailable on other stackable switches. Additionally, multiple stacking ports can be aggregated together to increase the stacking bandwidth and boost performance when needed.
- Long-distance stacking across wiring closets: In addition to standard short SFP+ to SFP+ and QSFP+ to QSFP+ copper stacking cables, ICX switches can also use standard SFP+ and QSFP+ optical transceivers and fiber for stacking with distance up to 10KM between switches. This enables long distance stacking between wiring closets within a building or even between buildings.
- No hardware module required for stacking: Many traditional stackable switches require the purchase of additional hardware stacking modules to be able to stack. All Ruckus ICX 7000 series switches come with the hardware necessary for stacking thanks to the use of standard stacking ports.
- In Service Software Upgrade (ISSU): ICX stacking technology supports ISSU across stacked switches, a unique capability that enables a stack of ICX switches to go through a software upgrade without taking down the stack. Stack members are upgraded sequentially one after the other while the other members are in service. The process is completely automated for the network administrator.

- Superior scalability with up to 12 switches per stack: Most network vendors limit the maximum number of switches per stack to 8 units or less. ICX switching technology supports up to 12 switches per stack offering 50% more ports per stack than traditional stackable switches.
- Stacking at the aggregation and core: Thanks to ICX switches advanced stacking technology, Ruckus is the only vendor to offer a stack based solution for the campus aggregation/core. The ICX 7750 Switch is a 1U high-performance, high-availability, and market-leading-density 10/40 GbE solution. With industry leading price/performance and low latency, cut-through, non-blocking architecture, the Ruckus ICX 7750 provides unprecedented stacking density and performance with up to 12 switches per stack and up to 5.76 Tbps of aggregated stacking bandwidth, limiting inter-switch bottlenecks and offering cost-effective large-scale chassis replacement at the campus aggregation/core. Additionally, support for ISSU at the stack level enables the ICX 7750 to deliver chassis level high-availability and reliability to maximize network uptime.



Figure 1: Ruckus 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.

ENTERPRISE-CLASS AVAILABILITY

Ruckus stacking technology delivers high availability, performing realtime 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. Users 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, Ruckus ICX switches include system-level high-availability features, such as dual hot-swappable, load-sharing, and redundant power supplies. 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. The Ruckus ICX 7000 switches support stack-level In Service Software Upgrade (ISSU)¹, a unique Ruckus capability that enables a stack of Ruckus ICX Switches to go through a software upgrade without service interruption, enabling continuous operation during system upgrades.

RUCKUS CAMPUS FABRIC TECHNOLOGY

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

All of the Ruckus ICX 7000 platforms can leverage Ruckus Campus Fabric to extend network options and scalability. The technology integrates premium Ruckus ICX 7750 Switches with entry-level and mid-range switches, the Ruckus ICX 7450, ICX 7250, and ICX 7150¹ Switches, by collapsing network access, aggregation, and core layers into a single logical switch. This logical device results in sharing network services while reducing management touch points and network hops through a single layer design spanning the entire campus network. New switches are quickly and easily added—simply connect them to a fabric port and the switch is automatically configured and added to the Campus Fabric.

Ruckus Campus Fabric combines the power of Distributed Chassis design with the flexibility and cost-effectiveness of fixed form factor switch building blocks. The traditional aggregation/core layer is replaced by a stack of high-performance ICX 7750 switches which deliver a unified network control plane that acts as the central management and traffic forwarding authority for the entire Campus Fabric domain. The high-performance ICX access switches act as virtual line-cards for the entire fabric. Connections between two devices in the fabric can be up to 10km ensuring maximum flexibility and scalability. Ruckus Campus Fabric deployments deliver equivalent or better functionality than large, rigid modular chassis systems with significantly lower costs and smaller carbon footprints

MULTIGIGABIT ETHERNET TECHNOLOGY FOR NEXT GENERATION WIRELESS APS

Support for wireless networking is at the core of the ICX family design. Ruckus ICX 7150-48ZP and ICX 7450-32ZP switches are designed to handle next-generation 802.11ac Wave 2 wireless access points. These ICX switches offer 2.5 GbE (803.2bz) ports to connect Multigigabit APs and increase the data speeds. This new technology delivers two and a half times the bandwidth of regular Gigabit Ethernet on the same standard CatSe cables, reducing the total number for links needed between switches and APs and optimizing wireless performance and scalability.

¹ Support on the Ruckus ICX 7150 to be available in a future release.

Ruckus ICX Switch Family Scalable Fixed Form-Factor Switches for Next-Generation IP Networks

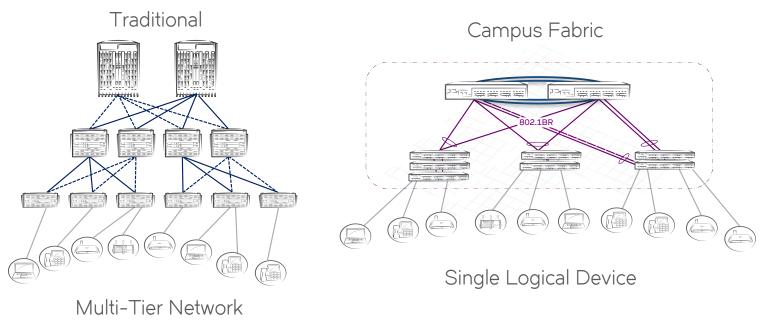


Figure 2: The Ruckus Campus Fabric architecture versus a traditional multi-tier campus network.

MORE THAN ENOUGH POWER FOR NETWORK **DEVICES**

Ruckus ICX access switches with Power-over-Ethernet offer PoE (802.3af; 15 watts), and PoE+ (802.3at; 30 watts) sufficient to drive wireless access points, VoIP phones, video cameras, lighting and other devices. Each switch family offers sufficient power for even the most densely populated environments with PoE to all ports simultaneously with a single power supply, and drive PoE+ (30 watts) to all ports with dual power supplies.

The Ruckus ICX 7150-48ZP and all ICX 7450 switches with PoE also take power to the next level with Power-over-HDBaseT (PoH) delivering 90 watts to power high-end Ethernet devices such as access points, large video displays, surveillance cameras and other devices.

ENSURING END-TO-END DATA PRIVACY

As organizations move to a hybrid cloud architecture with geographically dispersed business partners, concerns about security breaches are increasing. Many organizations seek to better meet compliance and protect their data in transit—whether across the Internet or the enterprise network. Ruckus offers a unique stackable switching solution that delivers encryption from the wiring closet, providing a cost-effective way to ensure data security and integrity across both internal and external links without the need to purchase dedicated encryption products.

The Ruckus 7450 Service Module provides hardware-based acceleration for IPsec VPNs using Advanced Encryption Standards (AES). The Ruckus 7450 Service Module accelerates IPsec traffic performance by offloading the mathematically intensive part of the process while relying on the switch processor to identify traffic for encryption, negotiate the security associations, and forward encrypted traffic. With 10 Gbps throughput per service module, a single Ruckus ICX 7450 Switch or stack can ensure that service levels are not impacted as compliance requirements and security needs increase.

WIRED/WIRELESS ON-BOARDING AND SECURITY

Ruckus Cloudpath Enrollment System (ES) security and policy management platform is supported across the Ruckus ICX switch families. It enables IT to easily and definitively secure the network, secure users and secure wired and wireless devices. Cloudpath software consolidates and simplifies the deployment of multiple services that are typically disparate and complex to manage: Certificate Management, Policy Management and Device Enablement.

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, security, and efficiency. The Ruckus ICX Switches enable SDN by supporting the OpenFlow 1.3 protocol, which facilitates communication between a standard SDN controller and the underlying network infrastructure.

With hybrid-port mode support on the Ruckus ICX Switches, organizations can run traditional protocols and OpenFlow-directed flows at the same time. With an SDN controller and OpenFlow on the Ruckus ICX switches, IT organizations can receive the benefits of programmatic control while gradually introducing parts of their network into the controller domain without disruption.

OPEN-STANDARDS-BASED MANAGEMENT, MONITORING AND AUTHENTICATION

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

sFlow-based Network Monitoring

sFlow is a modern, standards-based network data export protocol (RFC 3176) that addresses many of the challenges that network managers face today. By embedding sFlow hardware support into Ruckus ICX switches, users dramatically reduce implementation costs compared to traditional network monitoring solutions that rely on mirrored ports, probes, and line-tap technologies. Moreover, sFlow gives users full, enterprise-wide monitoring capability for every port in the network.

Automated Deployment with Auto-Provisioning

Ruckus ICX switches support auto-configuration to simplify deployment and deliver a plug-and-play experience. Users can use this feature to automate IP address and feature configuration of the ICX 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. Subsequently, the switches automatically receive a software update to be at the same code version as currently installed switches to maintain consistency across the network.

Open-Standards Management and Authentication

Ruckus 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. Support for Terminal Access Controller Access Control System (TACACS/TACACS+) and RADIUS authentication helps ensure secure operator access.

Ruckus ICX Switches also support HTTP/HTTPS based web access for configuration via an intuitive graphical interface.

SILENT OPERATION

The Ruckus ICX 7150 can operate silently through either a fanless design or a "silent mode" configuration option depending on the model. The silent mode capability enables the PoE switches to operate with the fan disabled while providing a PoE budget of up to 150 Watts for the 24-port model and the 48-port model.

This Ruckus-exclusive feature enables users to deploy the Ruckus ICX 7150 switches outside of the wiring closet without disrupting the environment. This capability is critical for certain verticals such as hospitality, education, healthcare, and retail where networking equipment needs to be deployed into a work environment or living space such as a classroom, hotel room, patient room, operating room, or retail space with minimal disruption.

Silent operation allows a common switch platform to be deployed in all environments eliminating the need to purchased specific fanless models thus reducing spares holdings and increasing the solution flexibility.

A COMPLETE LINE OF SWITCHES FOR CAMPUS ACCESS, AGGREGATION, AND CORE DEPLOYMENT

Ruckus ICX 7000 switches support Ruckus Campus Fabric technology 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.

OVERVIEW OF RUCKUS ICX 7000 PRODUCT FAMILY

		Access			Access/ Aggregation	AGG/Core
	ICX 7150 Compact	ICX 7150	ICX 7150 Z-Series	ICX 7250	ICX 7450	ICX 7750
SWITCH CAPACITY						
Switching capacity (max)	68 Gbps	180 Gbps	304 Gbps	256 Gbps	336 Gbps	576 Gbps
1 GbE RJ-45 ports	12 +2	24 or 48 +2	48	24 or 48	24, 32 or 48	48
1 GbE SFP ports	2	4	8	8	48	48
1/2.5 GbE RJ-45 ports			16		8	
10 GbE SFP+ ports (max)	2	4	8	8	12	96³
10 GbE RJ-45 ports (max)					12	48
40 GbE QSFP+ ports (max)					3	32
PoE Power Budget (max)	124 W	740 W	1480 W	1480 W ²	1496 W	
Switches per stack (max)	12	12	12	12	12	12
Aggregated stack bandwidth	240 Gbps	480 Gbps	480 Gbps	480 Gbps	960 Gbps	5.76 Tbps
(EY FEATURES						
PoE / PoE+	•	•	•	•	•	
Stacking	•4	• ⁴	•	•	•	٠
sFlow	•	•	•	•	•	٠
L3: Static Routing / RIP/ OSPF	•4	•4	•	•	•	٠
OpenFlow	•4	•4	•	•	•	٠
EEE (Energy Efficient Ethernet)				•	•	
Campus Fabric	•4	•4	•4	•	•	٠
Redundant power option			•	•	•	٠
Hot-Swap PSUs & Fans			•		•	٠
Multigig (IEEE 802.3bz)			•		•	
PoH (90W per port)			•		•	
L3: BGP					•	٠
L3: VRF				•	•	٠
MACsec					•	
IPsec VPN					•	
Reversible airflow option					•	٠
МСТ						٠

² With external power supply unit.

 $^{\scriptscriptstyle 3}~$ With QSFP+ to 4 SFP+ splitter cables.

⁴ To be supported in a future software release.

RUCKUS ICX 7150

The Ruckus[®] ICX[®] 7150 family of stackable switches delivers the performance, flexibility, and scalability required for enterprise access deployment, raising the bar with non-blocking performance and up to 8×10 GbE ports for uplinks or stacking. It offers seamless interoperability with Ruckus wireless products to deliver unified wired and wireless network access.

RUCKUS ICX 7150 SWITCHES

The standard Ruckus ICX 7150 switches are available in 24-, and 48-port 10/100/ 1000 Mbps models with four 1/10 GbE dual-purpose uplink/stacking ports. Switches are available with or without PoE+ power. Silent operation is available to use in- or outof-closet environments.

RUCKUS ICX 7150 Z-SERIES SWITCHES

The Ruckus ICX 7150-48ZP 48-port switch adds higher performance, greater resiliency and increased PoE power. The switch offers Multigigabit technology (IEEE 802.3bz) to match the highest performing 802.11ac Wave 2 wireless access points available, with dual redundant, hot-swappable power supplies and fans, and up to 8×10 GbE uplink/stacking ports.

The switch offers 16 Multigigabit (100Mbps/ 1Gbps/2.5Gbps) ports, each with Powerover-HDBaseT (PoH) up to 90 watts, plus 32 10/100/1000 Mbps ports with PoE+. With a maximum PoE budget of 1480 watts, this switch delivers the power, and performance, to drive PoE+ power to all 48 ports.

RUCKUS ICX 7150 COMPACT SWITCHES

The Ruckus ICX 7150-C12P compact 12-port stackable switch features a fanless design to operate silently in out-of-closet environments such as offices, classrooms, and retail spaces. It offers PoE+ on all 12 ports to drive devices such as wireless APs, VoIP phones, lighting fixtures or surveillance cameras. With 2x1/10 GbE uplink/stacking ports, the ICX 7150-C12 delivers high performance in a small package.

RUCKUS ICX 7150

These Ruckus ICX 7150 models offer a single integrated power supply, one RJ-45 Ethernet port for out-of-band network management, one USB Type-C port for console management, one RJ-45 port for serial console management, and one USB port for external file storage.

09(]]]]]] 	Ruckus ICX 7150-24 Switch 24× 10/100/1000 Mbps RJ-45 ports 2× 10/100/1000 Mbps uplink RJ-45 ports 4× 1/10 GbE uplink/stacking SFP/SFP+ ports
09(111111111111111111111111111111111111	Ruckus ICX 7150-24P Switch 24× 10/100/1000 Mbps RJ-45 PoE+ ports 370 W PoE budget 2× 10/100/1000 Mbps uplink RJ-45 ports 4× 1/10 GbE uplink/stacking SFP/SFP+ ports
	Ruckus ICX 7150-48 Switch 48× 10/100/1000 Mbps RJ-45 ports 2× 10/100/1000 Mbps uplink RJ-45 ports 4× 1/10 GbE uplink/stacking SFP/SFP+ ports
	Ruckus ICX 7150-48P Switch 48×10/100/1000 Mbps RJ-45 PoE+ ports 370 W PoE budget 2×10/100/1000 Mbps uplink RJ-45 ports 4×1/10 GbE uplink/stacking SFP/SFP+ ports
9 111111111111111111111111111111111111	Ruckus ICX 7150-48PF Switch 48×10/100/1000 Mbps RJ-45 PoE+ ports 740 W PoE budget 2×10/100/1000 Mbps uplink RJ-45 ports 4×1/10 GbE uplink/stacking SFP/SFP+ ports

RUCKUS ICX 7150 Z-SERIES

The Ruckus ICX 7150 Z-Series Switch offers redundant hot swappable load sharing power supplies, up to 2 hot swappable fans, one RJ-45 Ethernet port for out-of-band network management, one USB Type-C port for console management, one RJ-45 port for serial console management, and one USB port for external file storage.



RUCKUS ICX 7150 COMPACT SWITCH

The Ruckus ICX 7150 compact switch offer a single integrated power supply, one RJ-45 Ethernet port for out-of-band network management, one USB Type-C port for console management, one RJ-45 port for serial console management, and one USB port for external file storage.



RUCKUS ICX 7250

The Ruckus[®] ICX[®] 7250 switch combines enterprise-class features, manageability, and the flexibility, and "pay as you grow" scalability of a stackable solution. The switch delivers the performance, 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. Ruckus ICX 7250 switches also offer an external power supply for failover resiliency, as well as increased PoE/PoE+ port availability.

The Ruckus 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. Optimizing performance based on specific requirements is easy with flexible licensing upgrade which allows users to upgrade from 1 GbE to 10 GbE ports for uplink and stacking.

PREMIUM PERFORMANCE

Designed for small to medium-size enterprises, branch offices, and distributed campuses, these scalable edge switches deliver enterprise-class functionality at an affordable price-without compromising performance and reliability. The Ruckus ICX 7250 delivers wire-speed, non-blocking performance across all ports to support latency-sensitive applications, such as real-time voice/video streaming and Virtual Desktop Infrastructure (VDI). The switch is available in 24- and 48-port 10/100/ 1000 Mbps models with 1 GbE uplink or 10 GbE dual-purpose uplink/stacking portswith or without PoE and PoE+—to support wireless mobility, and IP communications without the need for additional power outlets or power injectors.

RUCKUS ICX 7250 SWITCHES

Except as noted, all Ruckus 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.

 Ruckus 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
Ruckus ICX 7250-24 24×10/100/1000 Mbps RJ-45 ports 8×1 GbE uplink/stacking ports; Upgradable to 10 GbE
Ruckus 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
Ruckus ICX 7250-48 48×10/100/1000 Mbps RJ-45 ports 8×1 GbE uplink/stacking ports; Upgradable to 10 GbE
Ruckus 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

RUCKUS ICX 7250 EXTERNAL POWER SUPPLY OPTIONS

The optional Ruckus ICX-EPS4000 is an external power supply source to provide additional power. 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

RUCKUS ICX 7450

The Ruckus® ICX® 7450 switch delivers the performance, flexibility, and scalability required for enterprise Gigabit Ethernet (GbE) access deployment. It offers market-leading stacking density with up to 12 switches (576x 1 GbE and 48x 1/10 GbE ports) per stack and combines chassis-level performance with "pay as you grow" scalability of a stackable solution. The mid-market stackable switch is one of 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. In addition, the Ruckus ICX 7450 is the industry's first stackable switching solution to leverage the advantages of site-to-site IPsec VPN security to ensure end-to-end data integrity without the need for dedicated encryption appliances.

The modular design of the switch provides three slots for scaling 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. Organizations can initially deploy 1 GbE or 10 GbE uplink ports and easily upgrade to 40 GbE ports on-demand with a new, high-speed module. As a result, Ruckus ICX 7450 delivers high performance across all ports for flawless support of latencysensitive applications.

System-level high-availability features, such as dual hot-swappable, load-sharing, and redundant power supplies, and hotswappable fan trays offer another level of availability for the campus wiring closet, all in a 1 RU form factor.

The switch is an ideal network solution for campus network 1 GbE and 2.5 GbE access or small aggregation deployment with 10 GbE or 40 GbE uplinks to the core. The switch is also suitable for a data center Top-of-Rack (ToR) solution, providing 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.

Deployed as a standalone switch, a stack, or a fabric network, organizations reap the benefits of a flexible platform and the assurance that their investments are protected.

RUCKUS ICX 7450 SWITCHES

The Ruckus ICX 7450 is available in six 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.

Ruckus ICX 7450-24 24×10/100/1000 Mbps RJ-45 ports
Ruckus ICX 7450-24P 24×10/100/1000 Mbps RJ-45 PoE+ ports with eight pre-assigned ports supporting PoH (90 W)
Ruckus ICX 7450-32ZP 24×10/100/1000 Mbps RJ-45 ports and 8×100/ 1000 Mbps/2.5 Gbps RJ-45 ports with PoE/PoE+ support and 8 pre-assigned ports supporting PoH 95 W power budget
Ruckus ICX 7450-48 48×10/100/1000 Mbps RJ-45 ports
Ruckus ICX 7450-48P 48×10/100/1000 Mbps RJ-45 PoE+ ports with eight pre-assigned ports supporting PoH (90 W)
Ruckus ICX 7450-48F 48×100/1000 Mbps SFP ports

RUCKUS ICX 7450 PORT AND SERVICE MODULE OPTIONS

Four different optional port modules are offered for Ruckus ICX switches. An optional service module for IPsec VPN encryption is offered for the Ruckus ICX 7450 Switch. Except as noted, these modules are interchangeable and can be installed in any of the three modular slots within Ruckus ICX switches.

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

RUCKUS ICX 7450 POWER SUPPLY OPTIONS

The Ruckus ICX 7450 offers a selection of PoE/non-PoE and AC/DC power supply options with frontto-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	

RUCKUS ICX 7750

The Ruckus® ICX® 7750 switch delivers industry-leading 10/40 GbE port density, advanced high-availability capabilities, and flexible stacking architecture, making it the most robust Ruckus aggregation and core distributed chassis switch offering for enterprise LANs. In addition to rich Layer 3 features, the Ruckus ICX 7750 scales to 12-unit distributed-chassis stacking and serves as the Control Bridge (master brain) for Ruckus Campus Fabric technology.

The Ruckus ICX 7750 switch is a 1U highperformance solution that meets the needs of business-sensitive campus deployments and classic data center environments. With a low latency, cut-through, non-blocking architecture, the Ruckus ICX 7750 provides a cost-effective, robust solution for the most demanding deployments.

LEADING-EDGE DESIGN FLEXIBILITY AND RELIABILITY

The Ruckus ICX 7750 switch provides the capabilities of a chassis with the flexibility and cost effectiveness of a stackable switch. Ruckus ICX 7750 is available in three models: the Ruckus ICX 7750-48F. 7750-48C, and 7750-26Q. The Ruckus ICX 7750-48F and 7750-48C both offer 48 10 GbE ports (SFP+ and 10GBASE-T, respectively) and up to 12 40 GbE ports (six optional). The Ruckus ICX 7750-26Q offers up to 32 40 GbE QSFP+ ports (six optional). All models support stacking, which allows organizations to buy only the ports they need now and expand later by adding switches to the stack where and when they are needed. This eliminates the need for a forklift upgrade and helps avoid provisioning an underutilized, centralized chassis.

Up to 12 Ruckus ICX 7750 switches can be stacked together using up to 12 full-duplex 40 Gbps standard QSFP+ stacking ports that provide an unprecedented maximum of 5.76 Tbps of aggregated stacking bandwidth with full redundancy, eliminating inter-switch bottlenecks.

RUCKUS ICX 7750 SWITCHES

All Ruckus 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.

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

RUCKUS ICX 7750 PORT OPTIONS

ICX7750-6Q module

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

6×40 GbE QSFP+ module

RUCKUS ICX 7750 POWER SUPPLY OPTIONS

The Ruckus 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

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

TECHNICAL SUPPORT

Ruckus ICX 7750 switches come with 90 days of free technical support⁵ from the Ruckus Technical Assistance Center (TAC). For continued access to the TAC past the initial 90 days, customers must purchase a Technical Support contract. With Technical Support, users gain peace of mind while freeing up IT budget and resources to grow their businesses. For details, visit http://www.brocade.com/en/support

RUCKUS GLOBAL SERVICES

Ruckus Global Services has the expertise to help organizations build scalable, efficient cloud infrastructures. Leveraging 20 years of expertise in networking Ruckus Global Services delivers world-class professional services, technical support, network monitoring services, and education, enabling organizations to maximize their Ruckus investments, accelerate new technology deployments, and optimize the performance of networking infrastructures.

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⁵ Check individual product data sheet for applicability.

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