

# RUCKUS<sup>®</sup> PRODUCT GUIDE

Indoor Access Points

Outdoor Access Points and Bridges

Control and Management

**ICX** Switches

Monitoring and Software

#### **RUCKUS PRODUCT GUIDE** – Indoor Access Points

## COMMSCOPE® RUCKUS®

	R850		R730	R720	R710	
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Feature/Description	High-end 802.11ax 8x8 dual- concurrent AP with MU-MIMO, BeamFlex+ and 5Gbps backhaul	High-end 802.11ax 4x4 dual- concurrent AP with MU-MIMO, BeamFlex+ and 2.5Gbps backhaul	High-end 802.11ax 8x8 dual- concurrent AP with MU-MIMO, BeamFlex+ and 5Gbps backhaul	High-end 802.11ac Wave 2 dual- concurrent AP with MU-MIMO, BeamFlex+ and 2.5Gbps backhaul	High-end 802.11ac Wave 2 dual- concurrent AP with MU-MIMO and BeamFlex+	
Maximum PHY rate	4800 Mbps (5GHz) 1148 Mbps (2.4GHz)	2400 Mbps (5GHz) 1148 Mbps (2.4GHz)	4800 Mbps (5GHz) 1148 Mbps (2.4GHz)	1733 Mbps (5GHz) 600 Mbps (2.4GHz)	1733 Mbps (5GHz) 600 Mbps (2.4GHz)	
Wi-Fi technology	802.11ax (2.4GHz, 5GHz) Wi-Fi CERTIFIED 6™	802.11ax (2.4GHz, 5GHz) Wi-Fi CERTIFIED 6™	802.11ax (2.4 GHz, 5GHz)	802.11ac (5GHz) 802.11n (2.4GHz)	802.11ac (5GHz) 802.11n (2.4GHz)	
Concurrent users	1024	1024	1024	512	512	
Radio chains:streams	5GHz: 8x8:8 MU-MIMO 2.4GHz: 4x4:4 MU-MIMO	4x4:4	8x8:8	4x4:4	4x4:4 SU-MIMO 4x4:3 MU-MIMO	
Antenna patterns (per band)	4,000+	4,000+	4,000+	4,000+	4,000+	
Antenna gain	Up to 2dbi	Up to 3dbi	Up to 2dBi	Up to 3dBi	Up to 3dBi	
PD-MRC	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	
Rx sensitivity (2.4/5GHz)	-101dBm	-102dBm	-103/-101dBm	-104dBm	-104dBm	
ChannelFly	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	
SmartMesh	$\checkmark$	$\checkmark$	✓	$\checkmark$	$\checkmark$	
USB (loT Ready)	$\checkmark$	$\checkmark$	✓	$\checkmark$	✓	
Ethernet ports	1x 1/2.5/5 Gbps 1x 10/100/1000 Mbps	1x1GbE 1x2.5GbE	1x 1/2.5/5 Gbps 1x 10/100/1000 Mbps	1 x 1GbE and 1 x 2.5GbE	2 x 1GbE	
Integrated BLE/ZigBee	$\checkmark$	$\checkmark$	$\checkmark$		_	
WLAN Control and Management	<ul><li>ZoneDirector</li><li>SmartZone</li><li>Unleashed</li></ul>	<ul><li>ZoneDirector</li><li>SmartZone</li><li>Unleashed</li><li>RUCKUS Cloud</li></ul>	<ul><li>ZoneDirector</li><li>SmartZone</li><li>RUCKUS Cloud</li></ul>	<ul><li>ZoneDirector</li><li>SmartZone</li><li>Unleashed</li><li>RUCKUS Cloud</li></ul>	<ul><li>ZoneDirector</li><li>SmartZone</li><li>Unleashed</li><li>RUCKUS Cloud</li></ul>	



#### **RUCKUS IoT Modules**

i100	
Protocol	• Zigbee 3.0, BLE, iBeacon, Eddystone (software configurable)
Device Capacity	<ul><li>25 (Zigbee)</li><li>12 (BLE)</li></ul>
Interfaces	• USB 2.0, Type A
Memory	• RAM: 256KB • Flash: 1MB
Output Power	• 16.5dBm (max)
Power Consumption	• 500mW (max)
Current Draw	• -100mA on 5V (max)
Mechanical	<ul> <li>Dimensions: 47.83 x 18 x 8.25mm</li> <li>Max weight: 85 grams</li> </ul>
Temperature	<ul> <li>-40 to 70°C</li> </ul>
Certifications	FCC and ETSI

#### **RUCKUS PRODUCT GUIDE** – Indoor Access Points

## COMMSCOPE® RUCKUS®

	R650	R650 R610 R550 R510		R510	R320	R310
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Feature/Description	Mid-range Wi-Fi 6 (802.11ax) dual- concurrent AP with MU-MIMO and BeamFlex+	Mid-range 802.11ac Wave 2 dual- concurrent AP with MU-MIMO and BeamFlex+	Mid-range Wi-Fi 6 (802.11ax) dual-concurrent AP with MU-MIMO and BeamFlex+	Mid-range 802.11ac Wave 2 dual- concurrent AP with MU-MIMO and BeamFlex+	Entry level 802.11ac Wave 2 dual- concurrent AP with BeamFlex	Entry level 802.11ac Wave 1 dual- concurrent AP with BeamFlex
Maximum PHY rate	2400 Mbps (5GHz) 574 (2.4GHz)	1300 Mbps (5GHz) 450 Mbps (2.4GHz)	1200 Mbps (5GHz) 574 Mbps (2.4GHz)	867 Mbps (5GHz) 300 Mbps (2.4GHz)	867 Mbps (5GHz) 300 Mbps (2.4GHz)	867 Mbps (5GHz) 300 Mbps (2.4GHz)
Wi-Fi technology	802.11ax (2.4GHz, 5GHz) Wi-Fi CERTIFIED 6™	802.11ac (5GHz) 802.11n (2.4GHz)	802.11ax (2.4GHz, 5GHz) Wi-Fi CERTIFIED 6™	802.11ac (5GHz) 802.11n (2.4GHz)	802.11ac (5GHz) 802.11n (2.4GHz)	802.11ac (5GHz) 802.11n (2.4GHz)
Concurrent users	512	512	512	512	256	100
Radio chains:streams	5GHz: 4x4:4 MU-MIMO 2.4GHz: 2x2:2 MU-MIMO	3x3:3	2x2:2	2x2:2	2x2:2	2x2:2
Antenna patterns (per band)	128	512	64	64	64	64
Antenna gain	Up to 3dBi	Up to 3dBi	Up to 3dBi	Up to 3dBi	Up to 3dBi	Up to 3dBi
PD-MRC	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	—	—
Rx sensitivity (2.4/5GHz)	-101dBm	-100dBm	-103dBm	-103dBm	-101dBm	-99dBm
ChannelFly	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
SmartMesh	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	—	—
USB (loT Ready)	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	—	—
Ethernet ports	1 x 1 GbE 1 x 2.5 GbE	2 x 1GbE	2 x 1GbE	2 x 1GbE	1 x 1GbE	1 x 1GbE
Integrated BLE/ZigBee	$\checkmark$	—	$\checkmark$	—	—	—
WLAN Control and Management	<ul> <li>ZoneDirector</li> <li>SmartZone</li> <li>Unleashed</li> <li>RUCKUS Cloud</li> </ul>	<ul> <li>ZoneDirector</li> <li>SmartZone</li> <li>Unleashed</li> <li>RUCKUS Cloud</li> </ul>	<ul> <li>ZoneDirector</li> <li>SmartZone</li> <li>Unleashed</li> </ul>	<ul> <li>ZoneDirector</li> <li>SmartZone</li> <li>Unleashed</li> <li>RUCKUS Cloud</li> </ul>	<ul> <li>ZoneDirector</li> <li>SmartZone</li> <li>Unleashed</li> <li>RUCKUS Cloud</li> </ul>	<ul> <li>ZoneDirector</li> <li>SmartZone</li> <li>Unleashed</li> <li>RUCKUS Cloud</li> </ul>

#### **RUCKUS PRODUCT GUIDE** – Indoor Access Points

### COMMSCOPE® RUCKUS®

	H550	H510	H320	С110	M510	
	Classes					
Feature/Description	Wall-mount Wi-Fi 6 (802.11ax) AP dual-concurrent, five GbE ports, IoT gateway, BeamFlex+	802.11ac Wave 2 dual-concurrent wall switch with five GbE ports and BeamFlex+	802.11ac Wave 2 dual-concurrent wall switch with two 10/100MbE ports and BeamFlex+	802.11ac Wave2 dual-concurrent wall plate with built-in DOCSIS 3.0 cable modem	Mobile Indoor 802.11ac Wave 2 2x2:2 Wi-Fi AP with LTE Backhaul	
Maximum PHY rate	1200 Mbps (5GHz) 574 Mbps (2.4GHz)	867 Mbps (5GHz) 300 Mbps (2.4GHz)	867 Mbps (5GHz) 150 Mbps (2.4GHz)	867 Mbps (5GHz) 300 Mbps (2.4GHz)	867 Mbps (5GHz) 300 Mbps (2.4GHz)	
Wi-Fi technology	802.11ax (2.4GHz, 5GHz) Wi-Fi CERTIFIED 6™	802.11ac (5GHz) 802.11n (2.4GHz)	802.11ac (5GHz) 802.11n (2.4GHz)	802.11ac (5GHz) 802.11n (2.4GHz)	802.11ac (5GHz) 802.11n (2.4GHz)	
Concurrent users	512	100	100	100	512	
Radio chains:streams	2x2:2	2x2:2	5GHz: 2x2:2 MU MIMO 2.4GHz: 1x1:1 SU-MIMO	2X2:2	2x2:2	
Antenna patterns (per band)	16	4	4	4	64	
Antenna gain	Up to 1dBi	Up to 1dBi	Up to 3dBi	Up to 3dBi	Up to 3dBi	
PD-MRC	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	
Rx sensitivity (2.4/5GHz)	-100dBm	-99/-96dBm	-99/-96dBm	-96/-95dBm	-101/-95dBm	
ChannelFly	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	
SmartMesh	$\checkmark$	$\checkmark$	_	$\checkmark$	✓ (in future release)	
USB (loT Ready)	$\checkmark$	$\checkmark$	_	$\checkmark$	$\checkmark$	
Ethernet ports	5 x 1GbE	5 x 1GbE	2 x 10/100MbE 1 x 1GbE	2 x 10/100MbE	2 x 1GbE ports, RJ-45	
Integrated BLE/ZigBee	✓	—	_	_	—	
WLAN Control and Management	<ul> <li>ZoneDirector</li> <li>SmartZone</li> <li>Unleashed</li> <li>RUCKUS Cloud</li> </ul>	ZoneDirector     SmartZone     Unleashed     RUCKUS Cloud	<ul> <li>ZoneDirector</li> <li>SmartZone</li> <li>Unleashed</li> <li>RUCKUS Cloud</li> </ul>	<ul> <li>ZoneDirector</li> <li>SmartZone</li> <li>Unleashed</li> </ul>	<ul><li>SmartZone</li><li>Unleashed</li></ul>	

#### **RUCKUS PRODUCT GUIDE** – Outdoor Access Points and Bridges



	T750	T710 Series	T610 Series	T310 Series
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Feature/Description	High-end Wi-Fi 6 (802.11ax) dual-concurrent AP with MU-MIMO and BeamFlex+	High-end 802.11ac Wave 2 dual concurrent AP with BeamFlex+	Mid-range 802.11ac Wave 2 dual concurrent AP with BeamFlex+	Entry-level 802.11ac Wave 2 outdoor AP series with integrated BeamFlex+ omni and sector antennas
Maximum PHY rate	2400 Mbps (5GHz) 1148 Mbps (2.4GHz)	1733 Mbps (5GHz) 600 Mbps (2.4GHz)	1733 Mbps (5GHz) 600 Mbps (2.4GHz)	867 Mbps (5GHz) 300 Mbps (2.4GHz)
Wi-Fi technology	802.11ax (2.4GHz, 5GHz) Wi-Fi CERTIFIED 6™	802.11ac (5GHz) 802.11n (2.4GHz)	802.11ac (5GHz) 802.11n (2.4GHz)	802.11ac (5GHz) 802.11n (2.4GHz)
Concurrent users	1024	512	512	512
Radio chains:streams	4x4:4	4x4:4	4x4:4	2x2:2
Antenna patterns (per band)	4,000+	4,000+	4,000+	64
Antenna gain	Up to 3dBi	Omni: Up to 3dBi Sector: Up to 8dBi	Omni: Up to 3dBi 120 Sector: Up to 8dBi	Omni: Up to 3dBi 120 Sector: Up to 9dBi 30 Sector: Up to 12dBi
PD-MRC	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Rx sensitivity (2.4/5GHz)	-103dBm	-104/-104dBm	-104dBm	-101dBm
ChannelFly	$\checkmark$	$\checkmark$	✓	$\checkmark$
SmartMesh	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Ethernet interface	1 x 1 GbE 1 x 2.5 GbE	2 x 1GbE	2 x 1GbE	1 x 1GbE
USB (loT Ready)	$\checkmark$	—	$\checkmark$	Models d, s, & n
Fiber interface	$\checkmark$	$\checkmark$	—	—
GPS	×	$\checkmark$		
WLAN Control and Management	<ul> <li>ZoneDirector</li> <li>SmartZone</li> <li>Unleashed</li> <li>RUCKUS Cloud</li> </ul>			

#### **RUCKUS PRODUCT GUIDE** – Outdoor Access Points and Bridges



	T350c	T350c T350d T811-CM E510		E510	P300
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Feature/Description	High-density outdoor AP series 2x2:2 (5GHz) + 2x2:2 (2.4GHz) Wi-Fi 6 (802.11 ax) with integrated BeamFlex+ omni and sector antennas	High-density outdoor AP series 2x2:2 (SGH2) + 2x2:2 (2.4GHz) Wi-Fi 6 (802.11 ax) with integrated BeamFlex+ omni and sector antenna	Outdoor 4x4:4 2.4/5GHz 802.11ac Wave 2 Wi-Fi access point with DOCSIS 3.1 backhaul	Embedded 802.11ac Outdoor Wave 2 Wi-Fi AP with External BeamFlex+ Antennas	Point-to-Point / Multi-point bridge
Maximum PHY rate	2.4GHz: 574 Mbps 5GHz: 1200Mbps	2.4GHz: 574 Mbps 5GHz: 1200Mbps	1733 Mbps (5GHz) 600 Mbps (2.4GHz)	867 Mbps (5GHz) 300 Mbps (2.4GHz)	867 Mbps (5GHz)
Wi-Fi technology	2x2:2 (5GHz) + 2x2:2 (2.4GHz) Wi-Fi 6 (802.11 ax)	2x2:2 (5GHz) + 2x2:2 (2.4GHz) Wi-Fi 6 (802.11 ax)	802.11ac (5GHz) 802.11n (2.4GHz)	802.11ac (5GHz) 802.11n (2.4GHz)	802.11ac (5GHz)
Concurrent users	512	512	512	512	—
Radio chains:streams	2x2:2 (5GHz) + 2x2:2 (2.4GHz)	2x2:2 (5GHz) + 2x2:2 (2.4GHz)	4x4:4	2x2:2	2x2:2
Antenna patterns (per band)	64	64	4,000+	64	_
Antenna gain	Up to 3dBi	Up to 3dBi	Up to 3dBi	Up to 3dBi	—
PD-MRC	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Rx sensitivity (2.4/5GHz)	-101dBm	-101dBm	-98/-97	-101dBm	-96dBm
ChannelFly	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
SmartMesh	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	—
Ethernet interface	1x 1GbE	1x 1GbE	1 x 1GbE	1 x 1GbE	1 x 1GbES
USB (loT Ready)	n/a	$\checkmark$	$\checkmark$	$\checkmark$	_
Fiber interface	n/a	n/a	$\checkmark$	_	_
GPS	n/a	n/a	$\checkmark$	_	_
WLAN Control and Management	<ul> <li>SmartZone</li> <li>ZoneDirector</li> <li>Unleashed</li> <li>RUCKUS Cloud</li> <li>Standalone</li> </ul>	<ul> <li>SmartZone</li> <li>ZoneDirector</li> <li>Unleashed</li> <li>RUCKUS Cloud</li> <li>Standalone</li> </ul>	• SmartZone	<ul> <li>SmartZone</li> <li>ZoneDirector</li> <li>Standalone</li> <li>Unleashed</li> <li>RUCKUS Cloud</li> </ul>	Unleashed Multi-Site Manager



	Network Controller						
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Feature	SmartZone 104/124	SmartZone 144	SmartZone 300	Virtual SmartZone-E	Virtual SmartZone-H		
Number of APs supported	Up to 1,024 / 3,000 per cluster	Up to 2,000 / 6,000 per cluster	Up to 10,000 / 30,000 per cluster	Up to 1,024 / 3,000 per cluster	Up to 10,000 / 30,000 per cluster		
Number of switches supported	Up to 200 / 600 per cluster	Up to 400 / 1,200 per cluster	Up to 2,000 / 6,000 per cluster	Up to 200 / 600 per cluster	Up to 2,000 / 6,000 per cluster		
Number of clients supported	Up to 25,000 / 60,000 per cluster	Up to 40,000 / 120,000 per cluster	Up to 100,000 / 450,000 per cluster	Up to 25,000 / 60,000 per cluster	Up to 100,000 / 300,000 per cluster		
Ethernet ports	SZ104 & SZ124: 4 x 1GbE ports SZ124 only: 2 x 10GBE ports (SFP+)	4 x GbE ports 4 x 10 GbE ports (SFP+)	6 x 1GbE ports 4 x 10GbE ports (SFP+)	1 vNIC	1 or 3 vNIC		
Authentication support	802.1X, MAC address	802.1X, MAC address	802.1x, Local database, Active Directory, RADIUS, LDAP	802.1x, Local database, Active Directory, RADIUS, LDAP	802.1x, Local database, Active Directory, RADIUS, LDAP		
Guest networking/captive portal	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		
DHCP server	External or Assigned	External or Assigned	External or Assigned	External or vSZ-D assigned	External or vSZ-D assigned		
AP discovery and control	L2 / L3	L2 / L3	L2 / L3	L2 / L3	L2 / L3		
SSID/WLAN support	2,048 / 2,048 cluster	2,048 / 2,048 cluster	6,144 per SZ-300	2,048	6,144		
Management Interface	Web GUI, CLI	Web GUI, CLI	Web GUI, CLI	Web GUI, CLI	Web GUI, CLI		
Remote Management	Yes	Yes	Yes	Yes	Yes		
Management protocol(s)	SNMP v3, RESTful JSON	SNMP v3, RESTful JSON	SNMP v3, RESTful JSON	SNMP v3	SNMP v3		
VLAN support	Dynamic VLANs	Dynamic VLANs	Dynamic VLANs	Dynamic VLANs	Dynamic VLANs		
Data Plane	Tunneling or local breakout	Tunneling or local breakout	Tunneling or local breakout	Tunneling or local breakout	Tunneling or local breakout		
Power supply	AC	AC, Field Replaceable	DC or AC, Field Replaceable	N/A	N/A		
Fans	Redundant	Field Replaceable	Six redundant, field swappable fans in three sets	N/A	N/A		
SKU/Part number	P01-S104-XX00 P01-S124-XX00	P01-S144-XX00	901-S300-WW10/00	L09-VSCG-WW00	L09-VSCG-WW00		

#### **RUCKUS PRODUCT GUIDE** – Control and Management

### COMMSCOPE® RUCKUS®

	WLAN Controller	Controller-Less	Cloud
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Feature	ZoneDirector 1200	Unleashed	RUCKUS Cloud
Number of APs supported	Up to 150	Up to 50	Virtually unlimited number of APs supported
Number of switches supported	—	Up to 8 switches	Virtually unlimited number of switches supported
Clients	Up to 4,000	up to 1,024	Clients per AP: refer to AP data sheet
Ethernet ports	2 Ethernet ports, auto MDX, autosensing 1GbE	Refer to selected AP data sheet	N/A
Authentication support	802.1X, Local database, Active Directory, RADIUS, LDAP	802/1x. local database, Active Directory, RADIUS, LDAPr	PSK, 802.1x, Active Directory, RADIUS, LDAP, SMS, social login, open
Guest networking/ captive portal	$\checkmark$	$\checkmark$	$\checkmark$
DHCP server	$\checkmark$	$\checkmark$	External or assigned
AP discovery and control	L2 / L3	L2	L2
SSID/WLAN support	256	16	15/Venue
Management Interface	Web GUI, FlexMaster	Web GUI, CLI, Unleashed Multi-Site Manager	Web GUI and native mobile application
Remote Management	No	Yes	Yes
Management protocol(s)	SNMP v3	SNMP v3	N/A
VLAN support	Dynamic VLANs	Yes	Dynamic VLANs
Data Plane	Tunneling or local breakout	Local breakout	Local breakout
Power supply	DC or AC	PoE	APs powered using PoE or optional power supply
Fans	_	N/A	N/A
SKU/Part number	901-1205-XX00	Refer to Unleashed data sheet for supported devices	Refer to RUCKUS Cloud data sheet for supported devices

	SmartZone
	SmartZone Data Plane
Secured data plane sunneling	Enables forwarding of user data traffic through secure tunnels on RUCKUS APs when managed by Virtual SmartZone controllers.
Multiple hypervisor support	Supports the most widely deployed VMware and KVM hypervisors
NFV flexible architecture	Complete separation of Control+Management plane (vSZ) and data plane functions (SmartZone Data Plane) via separate VMs that support distributed and centralized deployments providing compelling architecture flexibility.
Works seamlessly with virtual SmartZone	vSZ acts as the controller for RUCKUS APs as well as SmartZone Data Plane providing seamless configuration and management capabilities.
Jp to 10 SmartZone Data Planes per vSZ and up to 10 SmartZone Data Planes per cluster	The vSZ controller runs in Active/Active (3+1) mode for extremely high availability. Each SmartZone Data Plane runs as an independent virtual machine instance that is managed by the vSZ controller.
/SZ Zone affinity ior SmartZone Data Plane	This feature enables RUCKUS APs in a particular zone establish tunnels with the SmartZone Data Plane in that particular zone. Provides flexibility for distributed and managed services deployments where the SmartZone Data Planes can be co-located on-premise with RUCKUS APs (vSZ Zones) on medium/large high density sites that need tunneling. With up to 40 SmartZone Data Planes per cluster, the SZ 3.5 release can potentially support a large number of such distributed deployments.
DHCP server and NAT	This feature enables a high scale DHCP Server on the SmartZone Data Plane. The DHCP Server is a high-scale server specifically designed and architected for Wi-Fi deployments that provide near-real time IP address assignment combined with NAT this provides tremendous value to the operator since it avoids mac-address scaling limits and high costs on the network infrastructure (switches).
.egal Intercept	This feature is useful from a Legal Intercept requirements perspective and enables the ability to mirror packets in both uplink and downlink directions for Wi-Fi clients that have a CALEA warrant.
Support for northbound tunnels .20GRE	This feature enables SmartZone Data Plane to forward WiFi client traffic to a specified 3rd party WAG (Wireless Access Gateway) over L2oGRE protocol standard.
Pv6 support	Supports IPv6 addressing for the SmartZone Data Plane interfaces as well as support forwarding of IPv6 client traffic
.3 Roaming (inter GmartZone Data Plane tunnels)	This feature enables L3 Roaming when traffic is tunneled to the SmartZone Data Plane. The feature relies on inter SmartZone Data Plane flexi-vpn tunnels that are dynamically created with minimal user intervention. L3 Roaming can be enabled based on VLANs or subnets.

	Access			Ac	Access / Aggregation			Aggregation / Core	
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Feature	ICX 7150-Compact	ICX 7150	ICX 7150 Z-Series	ICX 7250	ICX 7450	ICX 7550	ICX 7650	ICX 7750	ICX 7850
Switching Capacity (max)	120Gbps	180Gbps	304Gbps	256Gbps	336Gbps	1,020Gbps	1.128Tbps	2.56Tbps	6.4Tbps
1GbE RJ-45 ports	8 or 10 or 12 +2	24 +2 or 48 +2	48	24 or 48	24 or 48	24 or 48	48	48	
1GbE SFP ports	2	24 +4	8	8	48	48	48	48	48
1/2.5GbE RJ-45 ports (max)	8		16			12 or 36			
1/2.5/5/10GbE RJ-45 ports (max)	2					12	24		
10GbE SFP+ ports (max)	2	4	8	8	12	24	24 +4	96 <sup>1</sup>	128 <sup>1</sup>
10GbE RJ-45 ports (max)	2				12		24	48	
25GbE SFP28 ports									48
40GbE QSFP+ ports (max)					3	4	2	32	
100GbE QSFP28 ports (max)						3	2		32
PoE Power Budget (max)	240W	740W	1480W	1480W	1480W	2000W	1500W		
Switches per stack (max)	12	12	12	12	12	12	12	12	12
Aggregate stack bandwidth	240Gbps	480Gbps	480Gbps	480Gbps	960Gbps	2.4Tbps	2.4Tbps	5.76Tbps	9.6Tbps

<sup>1</sup> Requires QSFP+ splitter cables

	Access			Access / Aggregation			Aggregation / Core		
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Feature	ICX 7150-Compact	ICX 7150	ICX 7150 Z-Series	ICX 7250	ICX 7450	ICX 7550	ICX 7650	ICX 7750	ICX 7850
PoE/PoE+	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		
Long-Distance Stacking	√1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
sFlow	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Layer 3 (STATIC, RIP, OSPF)	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
OpenFlow with Hybrid Port Mode	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
RUCKUS Campus Fabric	√1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$
Redundant Power Option			$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
PoH (90W PoE power per port)	$\checkmark$		$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$		
Hot Swap Internal power supplies and fans			$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
EEE (Energy Efficient Ethernet)		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	√2		
VRF				$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
IPsec VPN (with service module)					$\checkmark$				
MACsec					$\checkmark$	$\checkmark$	$\checkmark$		$\checkmark$
BGP					$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Reversible airflow option					$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
VxLAN						√2	$\checkmark$	$\checkmark$	$\checkmark$
Multi Chassis Trunking (MCT)							$\checkmark$	$\checkmark$	$\checkmark$
Unified network management options	<ul><li>SmartZone</li><li>Unleashed</li><li>RUCKUS Cloud</li></ul>	<ul><li>SmartZone</li><li>Unleashed</li><li>RUCKUS Cloud</li></ul>	<ul><li>SmartZone</li><li>Unleashed</li><li>RUCKUS Cloud</li></ul>	<ul><li>SmartZone</li><li>Unleashed</li></ul>	<ul><li>SmartZone</li><li>Unleashed</li></ul>	<ul><li>SmartZone</li><li>Unleashed</li><li>RUCKUS Cloud</li></ul>	<ul><li>SmartZone</li><li>Unleashed</li><li>RUCKUS Cloud</li></ul>	<ul><li>SmartZone</li><li>Unleashed</li></ul>	<ul><li>SmartZone</li><li>Unleashed</li><li>RUCKUS Cloud</li></ul>

<sup>1</sup> Stacking and Campus Fabric not supported on ICX7150-C08P.

<sup>2</sup> Available in a future software release.



Network Monitoring		
Network Director (Centralized Inventory Management software)		Network Director provides a robust single-pane-of-glass view of your entire converged RUCKUS Wi-Fi and switch network. Network Director provides multi-cluster inventory control and management of all SmartZone network controllers for improved tracking and manageability.
RUCKUS Unleashed Multi-Site Manager		Unleashed Multi-Site Manager provides a single-pane-of-glass view of Unleashed networks deployed across multiple locations. It simplifies deployment, monitoring and management of Unleashed access points and ICX switches.
Software		
<b>IoT Suite</b> (Internet of Things Management server)		RUCKUS IoT Suite is a software controller that support IoT devices from the RUCKUS IoT Ecosystem. Our IoT Ecosystem partners offer panic buttons, door locks, thermostats, etc. running BLE, Zigbee, Bluetooth, LoRA, etc. wireless interfaces.
RUCKUS Analytics (Service Assurance)	(les)	RUCKUS Analytics is a cloud service for network intelligence and service assurance. Powered by machine learning and artificial intelligence, it gives IT comprehensive visibility into network operations and accelerates troubleshooting. RUCKUS analytics delivers powerful incident analytics, automated health monitoring, robust reporting, informative dashboards and more.
SmartCell Insight (SCI) (Reporting and Dashboards)		RUCKUS SmartCell Insight is software that delivers detailed reporting and informative dashboards for your RUCKUS network. It aggregates data from applications, users, devices, access points, controllers and switches to provide visibility into network operations. The software helps you to manage the network more effectively and improve user experience.
Cloudpath Enrollment System (Secure Network Access)		RUCKUS Cloudpath Enrollment System is software/SaaS that delivers secure network access for any user, and any device, on any network. It streamlines network onboarding and authentication for BYOD, guest users and IT-owned devices—including IoT devices. The software increases security and reduces IT workload while providing a great end- user onboarding experience. Choose from cloud-based and virtualized on-premises deployment.
Smart Positioning Technology SPoT (Location engine and analytics software)		The RUCKUS real-time location engine and analytics software enables retailers, stadiums, and transportation hubs to enhance the way they interact with customers based on precise location. Deployed on top of RUCKUS Smart Wi-Fi, the RUCKUS SPoT does not require any additional hardware and has unlimited scalability in the cloud. Send real-time travel updates, targeted promotions, and even classroom notes through footfall traffic and proximity analytics to enrich customer relationships.

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