

# RUCKUS<sup>®</sup> PRODUCT GUIDE

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TM

## 快速參考指南

即便面對最具挑戰的業界網路環境，RUCKUS®推出目的導向網路系統，為客戶提供最優異的效能。我們的合作夥伴與客戶在面對各種使用者與裝置需求時，總是能夠交付最出色的連線體驗，倚賴的就是遍及整個企業的自動化、人工智慧 (AI) 導向的網路品質保證，以及機器學習 (ML) 能力。對這些追求卓越的企业來說，「夠用的」的網路品質就是「不夠好」，他們需要 RUCKUS Networks 的卓越品質。

### 我們的產品

#### 無線基地台 (AP)



RUCKUS 無線產品線提供內嵌物聯網 (IoT) 連線能力的全系列室內與戶外基地台 (AP) 產品，無論您的預算多寡、效能需求或是部署情境為何，都能找到適合您需求的產品。

#### 交換器



RUCKUS ICX® 堆疊式交換器效能出眾，無論面對哪種部署情境都能遊刃有餘：從基地台到核心網路、1GbE 到 100GbE 的頻寬差別、銅線或是光纖網路、是否使用乙太網路供電 (PoE)，乃至於 multigigabit 與高功率乙太網路供電 (High PoE) 技術支援等。

#### 控制與管理



RUCKUS 網路管理產品組合能夠因應類型與規模不一的各級組織需求。我們提供內部部署的實體或虛擬控制器 (SmartZone™)、雲端管理控制器 (RUCKUS One™)，以及無控制器架構 (RUCKUS Unleashed™)，方便您依需求選擇。

#### 網路分析與品質保證



兼具人工智慧與機器學習能力的 RUCKUS AI™ 能夠發揮網路分析、商業情報，以及服務保證的三大優勢。

#### 安全的網路服務



RUCKUS Cloudpath® Enrollment System 能夠針對多家身分識別供應商提供驗證服務，在多重存取網路環境下強制實施網路原則與角色型存取控制 (RBAC)，為所有使用者、裝置與網路系統提供安全有保障的網路存取服務。  
RUCKUS WAN Gateway 廣域網路閘道器透過單一統合的系統，在邊緣網路 (Edge Network) 建構起穩若泰山的網路與安全性服務。

#### 物聯網 (IoT) 連線能力



RUCKUS IoT Platform 物聯網平台透過單一的多標準無線存取網路來串連 Wi-Fi 與非 Wi-Fi 物聯網端點，輕鬆簡化物聯網網路環境。彙整的資訊科技/運營技術 (IT/OT) 網路環境，讓客戶輕鬆提高工作效率。

### 讓 RUCKUS 獨樹一格

#### 效能



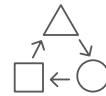
面對任何嚴峻的作業環境，RUCKUS 網路總是能夠提供優異且一致的網路效能，讓每一位使用者安心地作業。  
經實證，RUCKUS 獨家提供的專利技術能夠提供優於其他競爭產品的使用者體驗。如需最新的第三方報告，請參閱 [ruckusnetworks.com/wi-fi-stress-test](https://ruckusnetworks.com/wi-fi-stress-test)

#### 操作簡便



RUCKUS 解決方案操作簡便，讓您輕鬆進行部署與管理。  
運用零接觸佈建 (ZTP) 技術連線的任何一部全新的 RUCKUS 裝置，都會自動佈建適當的軟體與原則，為您省下寶貴的時間並有效減少組態設定錯誤。  
透過基於控制器的有線與無線裝置管理機制，所有的基地台與網路交換器也能適用完全相同的佈建流程。

#### 彈性搭配



由於單一 RUCKUS 網路都能支援區域網路 (LAN)、無線網路 (WLAN) 與物聯網 (IoT) 使用者及裝置，因此當您面對新興的操作模式/物聯網計劃時，就不用部署新的網路環境。  
RUCKUS 提供多種可互換部署選項以利管理，無須替換任何硬體就能輕鬆擴充容量，帶給您未來擴充的彈性與軟硬體投資保障。  
RUCKUS 能夠與第三方物聯網 (IoT) 產品整合，面對各種智慧大樓、資產追蹤、人身安全與使用者體驗應用需要，通通能夠輕鬆因應。

#### 技術創新



RUCKUS 網路內建多種專利的 RF 射頻技術，像是使用 BeamFlex+ 與人工智慧導向的無線射頻資源管理 (Radio resource management) 來確保最佳的 Wi-Fi 效能。  
RUCKUS 部署最尖端的人工智慧/機器學習與自動化技術，確保網路品質安全穩定。  
我們的 Dynamic PSK™ 技術延伸支援 WPA3 以因應 6 Ghz 操作需求，無論任何使用者、裝置還是應用程式，都能在彙整的資訊科技/操作技術 (IT/OT) 網路環境下安全地存取。  
RUCKUS WAN Gateway 廣域網路閘道器讓大型企业得以將零信任網路存取 (ZTNA) 架構輕易地部署到多個存取網路環境裡。

#### 互通性



RUCKUS 產品透過開放式標準支援、開放式 API 與全企業自動化，順暢地整合第三方與內部開發應用程式，滿足大型企业與服務供應商的各種需求。

### 目標產業



教育業



餐旅服務業



集合住宅



公司企業



政府機關



大型公共場域



製造業










服務供應

# 百聞不如一見 體驗無價!

# RUCKUS PRODUCT GUIDE

## INDOOR ACCESS POINTS



	R770	R760	R850	R750	R670	R560	R650
							
Feature/Description	High-end 802.11be tri-concurrent AP with MU-MIMO, BeamFlex+ 10Gbps backhaul	High-end 802.11ax 4x4 tri-concurrent AP with MU-MIMO, BeamFlex+ and 10Gbps backhaul	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	Midrange 802.11be 2x2:2 tri-concurrent AP with MU-MIMO, BeamFlex+ and 5Gbps backhaul	Mid-range 802.11ax 2x2 tri-concurrent AP with MU-MIMO, BeamFlex+ and 5Gbps backhaul	Mid-range Wi-Fi 6 (802.11ax) dual-concurrent AP with MU-MIMO and BeamFlex+
Maximum PHY rate	5765 Mbps (6GHz) 5765 Mbps (5GHz) 689 Mbps (2.4GHz)	4800 Mbps (6GHz) 2400 Mbps (5GHz) 1148 Mbps (2.4GHz)	4800 Mbps (5GHz) 1148 Mbps (2.4GHz)	2400 Mbps (5GHz) 1148 Mbps (2.4GHz)	5765 Mbps (6GHz) 5765 Mbps (5GHz, 4x4:4) 689 Mbps (2.4GHz)	2882 Mbps (6GHz) 1237 Mbps (5GHz) 591 Mbps (2.4GHz)	2400 Mbps (5GHz) 574 (2.4GHz)
Wi-Fi technology	802.11be (2.4GHz, 5GHz, 6GHz) Wi-Fi 7	802.11ax (2.4GHz, 5GHz, 6GHz) Wi-Fi CERTIFIED 6E™	802.11ax (2.4GHz, 5GHz) Wi-Fi CERTIFIED 6™	802.11ax (2.4GHz, 5GHz) Wi-Fi CERTIFIED 6™	802.11be (2.4GHz, 5GHz, 6GHz) Wi-Fi 7	802.11ax (2.4GHz, 5GHz, 6GHz) Wi-Fi CERTIFIED 6E™	802.11ax (2.4GHz, 5GHz) Wi-Fi CERTIFIED 6™
Concurrent users	1024	1536	1024	1024	768	1536	512
Radio chains:streams (MU-MIMO)	6GHz: 2x2:2 5GHz: 4x4:4 2.4GHz: 2x2:2	6GHz: 4x4:4 5GHz: 4x4:4 2.4GHz: 4x4:4	5GHz: 8x8:8 2.4GHz: 4x4:4	4x4:4	6GHz: 2x2:2 5GHz: 2x2:2 or 4x4:4 (dual band mode) 2.4GHz: 2x2:2	6GHz: 2x2:2 5GHz: 2x2:2 2.4GHz: 2x2:2	5GHz: 4x4:4 2.4GHz: 2x2:2
Antenna patterns (per band)	4,000+	4,000+	4,000+	4,000+	4,000+	4,000+	128
Antenna gain	Up to 4dbi	Up to 4dbi	Up to 2dbi	Up to 3dbi	Up to 4dbi	Up to 4dbi	Up to 3dbi
PD-MRC	✓	✓	✓	✓	✓	✓	✓
Rx sensitivity (2.4/5GHz/6GHz)	-97/-100/-96dBm	-98/-96/-97dBm	-101dBm	-102dBm	-97/-100/-96dBm	-94dBm	-101dBm
ChannelFly	✓	✓	✓	✓	✓	✓	✓
SmartMesh	✓	✓	✓	✓	✓	✓	✓
USB (IoT Ready)	✓	✓	✓	✓	✓	✓	✓
Ethernet ports	1x 1/2.5/5/10 Gbps 1x 10/100/1000 Mbps	1x 1/2.5/5/10 Gbps 1x 10/100/1000 Mbps	1x 1/2.5/5 Gbps 1x 10/100/1000 Mbps	1x1 GbE 1x2.5 GbE	1x 1/2.5/5 Gbps 1x 10/100/1000 Mbps	1x 1/2.5/5 Gbps 1x 10/100/1000 Mbps	1 x 1 GbE 1 x 2.5 GbE
Integrated BLE/ZigBee	✓	✓	✓	✓	✓	✓	✓
WLAN Control and Management	<ul style="list-style-type: none"> <li>• SmartZone</li> <li>• Unleashed</li> <li>• RUCKUS One</li> </ul>	<ul style="list-style-type: none"> <li>• SmartZone</li> <li>• RUCKUS One</li> </ul>	<ul style="list-style-type: none"> <li>• SmartZone</li> <li>• Unleashed</li> <li>• RUCKUS One</li> </ul>	<ul style="list-style-type: none"> <li>• SmartZone</li> <li>• Unleashed</li> <li>• RUCKUS One</li> </ul>	<ul style="list-style-type: none"> <li>• SmartZone</li> <li>• Unleashed</li> <li>• RUCKUS One</li> </ul>	<ul style="list-style-type: none"> <li>• SmartZone</li> <li>• RUCKUS One</li> </ul>	<ul style="list-style-type: none"> <li>• SmartZone</li> <li>• Unleashed</li> <li>• RUCKUS One</li> </ul>

# RUCKUS PRODUCT GUIDE

## INDOOR ACCESS POINTS



	R550	R370	R350	H550	H350
					
<b>Feature/Description</b>	Mid-range Wi-Fi 6 (802.11ax) dual-concurrent AP with MU-MIMO and BeamFlex+	Entry level Wi-Fi 7 (802.11be) 2x2:2 dual-concurrent AP with MU-MIMO, and 2.5Gbps backhaul	Entry level Wi-Fi 6 (802.11ax) dual-concurrent AP with BeamFlex+	Wall-mount Wi-Fi 6 (802.11ax) AP dual-concurrent, five GbE ports, IoT gateway, BeamFlex+	Wall-mount Wi-Fi 6 (802.11ax) AP dual-concurrent, three GbE ports, IoT gateway, BeamFlex+
<b>Maximum PHY rate</b>	1200 Mbps (5GHz) 574 Mbps (2.4GHz)	2882 Mbps (5GHz) 688 Mbps (2.4GHz)	1200 Mbps (5GHz) 574 Mbps (2.4GHz)	1200 Mbps (5GHz) 574 Mbps (2.4GHz)	1200 Mbps (5GHz) 574 Mbps (2.4GHz)
<b>Wi-Fi technology</b>	802.11ax (2.4GHz, 5GHz) Wi-Fi CERTIFIED 6™	802.11be (2.4GHz, 5GHz) Wi-Fi 7	802.11ax (2.4GHz, 5GHz) Wi-Fi CERTIFIED 6™	802.11ax (2.4GHz, 5GHz) Wi-Fi CERTIFIED 6™	802.11ax (2.4GHz, 5GHz) Wi-Fi CERTIFIED 6™
<b>Concurrent users</b>	512	256	256	512	512
<b>Radio chains:streams (MU-MIMO)</b>	2x2:2	2x2:2	2x2:2	2x2:2	2x2:2
<b>Antenna patterns (per band)</b>	64	—	64	16	16
<b>Antenna gain</b>	Up to 3dBi	Up to 4dbi	Up to 3dBi	Up to 1dBi	Up to 1dBi
<b>PD-MRC</b>	✓	✓	✓	✓	✓
<b>Rx sensitivity (2.4/5GHz)</b>	-103dBm	-97dBm	-101dBm	-100dBm	-100dBm
<b>ChannelFly</b>	✓	✓	✓	✓	✓
<b>SmartMesh</b>	✓	✓	✓	✓	✓
<b>USB (IoT Ready)</b>	✓	✓	✓	✓	—
<b>Ethernet ports</b>	2 x 1 GbE	1 x 2.5 GbE	1 x 1 GbE	5 x 1 GbE	3 x 1 GbE
<b>Integrated BLE/ZigBee</b>	✓	—	—	✓ (concurrent)	✓
<b>WLAN Control and Management</b>	<ul style="list-style-type: none"> <li>SmartZone</li> <li>Unleashed</li> <li>RUCKUS One</li> </ul>	<ul style="list-style-type: none"> <li>SmartZone</li> <li>Unleashed</li> <li>RUCKUS One</li> </ul>	<ul style="list-style-type: none"> <li>SmartZone</li> <li>Unleashed</li> <li>RUCKUS One</li> </ul>	<ul style="list-style-type: none"> <li>SmartZone</li> <li>Unleashed</li> <li>RUCKUS One</li> </ul>	<ul style="list-style-type: none"> <li>SmartZone</li> <li>Unleashed</li> <li>RUCKUS One</li> </ul>










### RUCKUS IoT Modules

i100	
<b>Protocol</b>	<ul style="list-style-type: none"> <li>Zigbee 3.0, BLE, iBeacon, Eddystone (software configurable)</li> </ul>
<b>Device Capacity</b>	<ul style="list-style-type: none"> <li>25 (Zigbee)</li> <li>12 (BLE)</li> </ul>
<b>Interfaces</b>	<ul style="list-style-type: none"> <li>USB 2.0, Type A</li> </ul>
<b>Memory</b>	<ul style="list-style-type: none"> <li>RAM: 256KB</li> <li>Flash: 1MB</li> </ul>
<b>Output Power</b>	<ul style="list-style-type: none"> <li>16.5dBm (max)</li> </ul>
<b>Power Consumption</b>	<ul style="list-style-type: none"> <li>500mW (max)</li> </ul>
<b>Current Draw</b>	<ul style="list-style-type: none"> <li>-100mA on 5V (max)</li> </ul>
<b>Mechanical</b>	<ul style="list-style-type: none"> <li>Dimensions: 47.83 x 18 x 8.25mm</li> <li>Max weight: 85 grams</li> </ul>
<b>Temperature</b>	<ul style="list-style-type: none"> <li>-40 to 70°C</li> </ul>
<b>Certifications</b>	<ul style="list-style-type: none"> <li>FCC and ETSI</li> </ul>

# RUCKUS PRODUCT GUIDE

## OUTDOOR ACCESS POINTS AND BRIDGES



	T750	T750se	T670	T670sn	T350c	T350d	T350se
							
Feature/Description	High-end Wi-Fi 6 (802.11ax) dual-concurrent AP with MU-MIMO and BeamFlex+	High-end Wi-Fi 6 (802.11ax) dual-concurrent AP with MU-MIMO and BeamFlex+ and internal sectorized antenna	High-end Wi-Fi 7 (802.11be) 2x2:2 tri-concurrent AP with MU-MIMO, BeamFlex+ and 5Gbps backhaul	High-end Wi-Fi 7 (802.11be) 2x2:2 tri-concurrent AP with MU-MIMO, narrow and wide sectorized antenna and 5Gbps backhaul	High-density outdoor AP series 2x2:2 (5GHz) + 2x2:2 (2.4GHz) Wi-Fi 6 with integrated BeamFlex+ adaptive internal antennas with polarization diversity	High-density outdoor AP series 2x2:2 (5GHz) + 2x2:2 (2.4GHz) Wi-Fi 6 with integrated BeamFlex+ adaptive internal antennas with polarization diversity	High-density outdoor AP series 2x2:2 (5GHz) + 2x2:2 (2.4GHz) Wi-Fi 6 with integrated BeamFlex+ adaptive internal sectorized antennas with polarization diversity
Maximum PHY rate	2400 Mbps (5GHz) 1148 Mbps (2.4GHz)	2400 Mbps (5GHz) 1148 Mbps (2.4GHz)	5765 Mbps (6GHz) 5765 Mbps (5GHz, 4x4:4) 689 Mbps (2.4GHz)	5765 Mbps (6GHz) 5765 Mbps (5GHz, 4x4:4) 689 Mbps (2.4GHz)	2.4GHz: 574 Mbps 5GHz: 1200Mbps	2.4GHz: 574 Mbps 5GHz: 1200Mbps	2.4GHz: 574 Mbps 5GHz: 1200Mbps
Wi-Fi technology	802.11ax (2.4GHz, 5GHz) Wi-Fi CERTIFIED 6™	802.11ax (2.4GHz, 5GHz) Wi-Fi CERTIFIED 6™	802.11be (2.4GHz, 5GHz, 6GHz) Wi-Fi 7	802.11be (2.4GHz, 5GHz, 6GHz) Wi-Fi 7	802.11ax (2.4GHz, 5GHz) Wi-Fi CERTIFIED 6™	802.11ax (2.4GHz, 5GHz) Wi-Fi CERTIFIED 6™	802.11ax (2.4GHz, 5GHz) Wi-Fi CERTIFIED 6™
Concurrent users	1024	1024	768	768	512	512	512
Radio chains:streams (MU-MIMO)	4x4:4	4x4:4	6GHz: 2x2:2 5GHz: 2x2:2 or 4x4:4 (dual band mode) 2.4GHz: 2x2:2	6GHz: 2x2:2 5GHz: 2x2:2 or 4x4:4 (dual band mode) 2.4GHz: 2x2:2	2x2:2 (5GHz) + 2x2:2 (2.4GHz)	2x2:2 (5GHz) + 2x2:2 (2.4GHz)	2x2:2 (5GHz) + 2x2:2 (2.4GHz)
Antenna patterns (per band)	4,000+	4,000+	4,000+	—	64	64	64
Antenna gain	Up to 3dBi	2.4GHz: 6dBi 5GHz: 8dBi	Up to 4dbi	Up to 12.8dbi	Up to 3dBi	Up to 3dBi	2.4GHz: 6dBi 5GHz: 8dBi
PD-MRC	✓	✓	✓	✓	✓	✓	✓
Rx sensitivity (2.4/5GHz)	-103dBm	-103dBm	-97/-100/-96dBm	-97/-100/-96dBm	-101dBm	-101dBm	-101dBm
ChannelFly	✓	✓	✓	✓	✓	✓	✓
SmartMesh	✓	✓	✓	✓	✓	✓	✓
Ethernet interface	1 x 1 GbE 1 x 2.5 GbE	1 x 1 GbE 1 x 2.5 GbE	1 x 1 GbE 1 x 5 GbE	1 x 1 GbE 1 x 5 GbE	1 x 1 GbE	1 x 1 GbE	1 x 1 GbE
USB (IoT Ready)	✓	n/a	n/a	✓	n/a	✓	✓
Fiber interface	✓	✓	n/a	n/a	n/a	n/a	n/a
GPS	✓	✓	✓	✓	n/a	n/a	n/a
Integrated BLE/ZigBee	✓	✓	n/a	n/a	n/a	✓	n/a
WLAN Control and Management	<ul style="list-style-type: none"> <li>• SmartZone</li> <li>• Unleashed</li> <li>• RUCKUS One</li> </ul>	<ul style="list-style-type: none"> <li>• SmartZone</li> <li>• Unleashed</li> <li>• RUCKUS One</li> </ul>	<ul style="list-style-type: none"> <li>• SmartZone</li> <li>• Unleashed</li> <li>• RUCKUS One</li> </ul>	<ul style="list-style-type: none"> <li>• SmartZone</li> <li>• Unleashed</li> <li>• RUCKUS One</li> </ul>	<ul style="list-style-type: none"> <li>• SmartZone</li> <li>• Unleashed</li> <li>• RUCKUS One</li> </ul>	<ul style="list-style-type: none"> <li>• SmartZone</li> <li>• Unleashed</li> <li>• RUCKUS One</li> </ul>	<ul style="list-style-type: none"> <li>• SmartZone</li> <li>• Unleashed</li> <li>• RUCKUS One</li> </ul>

# RUCKUS PRODUCT GUIDE

## CONTROL AND MANAGEMENT



SmartZone				
				
Feature	SmartZone 144	SmartZone 300	Virtual SmartZone-E	Virtual SmartZone-H
Number of APs supported	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 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 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	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, 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	✓	✓	✓	✓
DHCP server	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
WLANs	Up to 2,048 per cluster	Up to 2,048 per zone Up to 65,534 per cluster	Up to 2,048 per cluster	Up to 2,048 per zone Up to 65,534 per cluster
Management Interface	Web GUI, CLI	Web GUI, CLI	Web GUI, CLI	Web GUI, CLI
Remote Management	Yes	Yes	Yes	Yes
Management protocol(s)	SNMP v3, RESTful JSON	SNMP v3, RESTful JSON	SNMP v3	SNMP v3
VLAN support	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
Power supply	AC, Field Replaceable	DC or AC, Field Replaceable	N/A	N/A
Fans	Field Replaceable	Six redundant, field swappable fans in three sets	N/A	N/A
SKU/Part number	P01-S144-XX00	901-S300-WW10/00	L09-VSCG-WW00	L09-VSCG-WW00

# RUCKUS PRODUCT GUIDE

## CONTROL AND MANAGEMENT







SmartZone	
Feature	SmartZone Data Plane
Secured data plane tunneling	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.
Up to 10 SmartZone Data Planes per vSZ and up to 40 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.
vSZ Zone affinity for 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).
Legal 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 L2oGRE	This feature enables SmartZone Data Plane to forward WiFi client traffic to a specified 3rd party WAG (Wireless Access Gateway) over L2oGRE protocol standard.
IPv6 support	Supports IPv6 addressing for the SmartZone Data Plane interfaces as well as support forwarding of IPv6 client traffic
L3 Roaming (inter SmartZone 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.

	RUCKUS One	Controller-Less
Feature	RUCKUS One	Unleashed
Number of APs supported	virtually unlimited	Up to 150
Number of switches supported	virtually unlimited	Up to 16 switches
Clients	Clients per AP or switch, refer to HW datasheet	up to 2,048
Ethernet ports	N/A	Refer to selected AP data sheet
Authentication support	PSK, DPSK, 802.1X, Active Directory, RADIUS, LDAP, social/SMS, open	802/1x, local database, Active Directory, RADIUS, LDAPr
Guest networking/captive portal	✓	✓
DHCP server	Yes, or external	✓
AP discovery and control	L2	L2
SSID/WLAN support	15 per venue	16
Management Interface	Web, mobile, API	Web GUI, CLI, Unleashed Multi-Site Manager
Remote Management	Web, mobile, API	Yes
Management protocol(s)	n/a	SNMP v3
VLAN support	Dynamic VLANs	Yes
Data Plane	Local breakout	Local breakout
Power supply	N/A	PoE
Fans	N/A	N/A
SKU/Part number	See RUCKUS One subscription page for tiering information and SKUs	Refer to Unleashed data sheet for supported devices

# RUCKUS PRODUCT GUIDE

## ICX SWITCHES







	Access		Access / Aggregation	Aggregation / Core
				
Feature	ICX 8100	ICX 8200	ICX 7550	ICX 7850
Switching Capacity (max)	176Gbps	720Gbps	1,020Gbps	6.4Tbps
1GbE RJ-45 ports	8, 16, 24 or 48	8, 24 or 48	24 or 48	48
1GbE SFP ports (max)	4	48	48	48
1/2.5GbE RJ-45 ports (max)		16	12 or 36	
1/2.5/5/10GbE RJ-45 ports (max)		4	24	
10GbE SFP+ ports (max)	4	24	24	128 <sup>1</sup>
10GbE RJ-45 ports (max)		4		48
25GbE SFP28 ports		8	4	48
40GbE QSFP+ ports (max)			4	
100GbE QSFP28 ports (max)			3	32
PoE Power Budget (max)	740W	1480W	2000W	
Switches per stack (max)		12	12	12
Aggregate stack bandwidth		1.2Tbps	2.4Tbps	9.6Tbps

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

# RUCKUS PRODUCT GUIDE

## ICX SWITCHES








	Access		Access / Aggregation	Aggregation / Core
				
Feature	ICX 8100	ICX 8200	ICX 7550	ICX 7850
PoE/PoE+	✓	✓	✓	
Long-Distance Stacking		✓	✓	✓
sFlow		✓	✓	✓
Layer 3 (STATIC, RIP, OSPF)		✓	✓	✓
OpenFlow with Hybrid Port Mode		✓	✓	✓
Redundant Power Option		✓	✓	✓
PoH (90W PoE power per port)		✓	✓	
Hot Swap Internal power supplies and fans		✓	✓	✓
EEE (Energy Efficient Ethernet)	✓	✓	✓	
VRF		✓	✓	✓
MACsec			✓	✓
BGP			✓	✓
Reversible airflow option			✓	✓
VxLAN		✓ <sup>1</sup>	✓	✓
Multi Chassis Trunking (MCT)				✓
Unified network management options	<ul style="list-style-type: none"> <li>• SmartZone</li> <li>• Unleashed</li> <li>• RUCKUS One</li> </ul>	<ul style="list-style-type: none"> <li>• SmartZone</li> <li>• Unleashed</li> <li>• RUCKUS One</li> </ul>	<ul style="list-style-type: none"> <li>• SmartZone</li> <li>• Unleashed</li> <li>• RUCKUS One</li> </ul>	<ul style="list-style-type: none"> <li>• SmartZone</li> <li>• Unleashed</li> <li>• RUCKUS One</li> </ul>

<sup>1</sup> Available in a future software release.

### 網路監控

<b>Network Director</b> (集中式資產管理軟體)		Network Director 提供強大的單一視窗 (single-pane-of-glass) 檢視介面，可全面掌握整合式 RUCKUS Wi-Fi 與交換器網路。透過多叢集資產控管，能集中管理所有 SmartZone 網路控制器，進而提升追蹤能力與管理效率。
<b>RUCKUS Unleashed Multi-Site Manager</b>		Unleashed Multi-Site Manager 提供單一視窗 (single-pane-of-glass) 檢視介面，可集中監控部署於多個地點的 Unleashed 網路，有效簡化 Unleashed 無線存取點 (AP) 與 ICX 交換器的部署、監控與管理流程。

### 軟體

<b>IoT Suite</b> (物聯網管理伺服器)		RUCKUS IoT Suite 為軟體控制器，支援 RUCKUS IoT Ecosystem 中的各類 IoT 裝置。我們的 IoT Ecosystem 合作夥伴提供緊急按鈕、電子門鎖、恆溫器等設備，並支援 BLE、Zigbee、Bluetooth、LoRa 等無線通訊介面。
<b>RUCKUS AI</b> (網路服務保障)		RUCKUS AI 為提供網路分析與服務保障的雲端服務，透過人工智慧技術，為 IT 部門提供完整的網路營運能見度，並加速問題排除。RUCKUS AI 提供強大的事件分析與自動化健全度監控等功能，協助 IT 部門達成網路服務級別協定 (SLA)。
<b>SmartCell Insight (SCI)</b> (報表與儀表板)		RUCKUS SmartCell Insight 為軟體解決方案，可針對 RUCKUS 網路提供詳細報表與直觀的儀表板。透過彙整來自應用程式、使用者、裝置、無線存取點 (AP)、控制器與交換器的資料，全面提升網路營運能見度，協助企業更有效地管理網路並提升使用者體驗。
<b>Cloudpath Enrollment System</b> (安全網路存取)		RUCKUS Cloudpath Enrollment System 為雲端服務 (或內部部署軟體)，可在任何網路上為各類使用者與裝置提供安全的網路存取。本服務可簡化 BYOD、訪客使用者與 IT 部門自有管理設備 (包含 IoT 裝置) 的網路導入 (onboarding) 與身分驗證流程；在提升安全性的同時，亦能降低 IT 部門負擔，並提供卓越的終端使用者連線體驗。
<b>Smart Positioning Technology SPoT</b> (定位引擎與分析軟體)		RUCKUS 即時定位引擎與分析軟體可協助零售業、體育場館及交通樞紐，依據精準位置資訊強化與客戶的互動方式。RUCKUS SPoT 建置於 RUCKUS Smart Wi-Fi 架構之上，無需額外硬體，並具備雲端無限擴充能力。透過人流與鄰近度分析，可即時推送最新旅遊資訊、精準投放行銷廣告甚至傳送課堂筆記，進一步深耕客戶關係。

[www.ruckusnetworks.com](http://www.ruckusnetworks.com)

請造訪官方網站或聯繫當地 RUCKUS 業務代表以取得更多資訊。

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