DATA SHEET

RUCKUS® SmartZone 144 (SZ144)

Most scalable midsize campus and branch wired and wireless network controllers

BENEFITS

Consolidated wired-wireless management
A single wired and wireless network management user interface for deploying, monitoring and troubleshooting access points and switches.

Expedite troubleshooting
Visual Connection Diagnostics speeds and simplifies troubleshooting and wireless client problem resolution while unique "super-KPIs" enable IT to more quickly detect and react to potential user experience degradation.

Auto-Discover, Auto-Deploy, Auto-Provision
Web-based configuration wizards configures an entire WLAN/LAN in minutes.

Ultra-high resiliency
SmartZone protects from catastrophic failures with intra-cluster, and inter-cluster failover.

Unmatched scale
SZ144 Controller can manage up to 2K APs, 400 switches and 40K clients. With 3+1 clustering, it scales up to 6K APs, 1200 switches and 120K clients. With LAG, aggregate throughput can reach 40Gbps.

Ease content management
Easily create and enforce content policies to protect wireless users from accessing inappropriate websites using optionally licensed URL Filtering.

Additional advanced features
SmartZone also supports rogue AP detection and mitigation, adaptive band balancing, load balancing, airtime fairness, hotspot and guest services, capacity-based admission control, and more

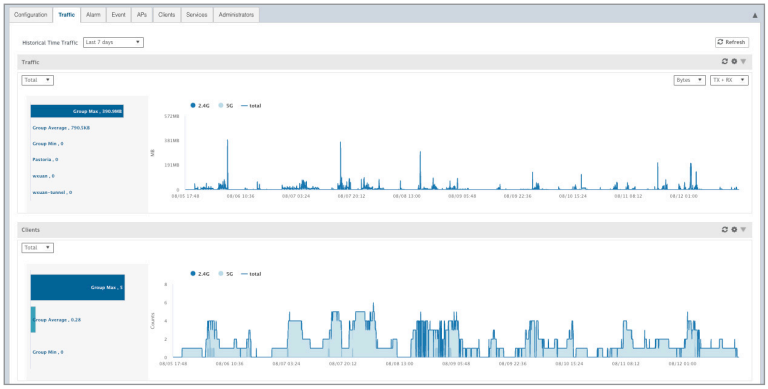
The RUCKUS SmartZone 144 (SZ144) supports distributed networks, automates repetitive IT work, and is flexible and future-ready with scalable wired and wireless network management capabilities.

SmartZone 144 manages up to 120,000 clients, up to 6,000 RUCKUS access points, and 1,200 RUCKUS switches from a single cluster.

It is ideal for any midsize enterprise that must support hyper-distributed networks that connect multiple campuses and networks of remote home offices. Using its native hybrid (centralize / distributed) network architecture, a single SZ144 placed within a centralized data center can manage up to 6,000 remote sites.

And unlike conventional wired and wireless systems that are complex and cumbersome to learn, manage and deploy, the SZ144 is designed to reduce an administrator's workload by streamlining repetitive IT tasks with visual client troubleshooting tools, and zero-touch discovery, provisioning and policy configuration of new APs and switches.

To keep organizations competitive, their network must be always on, flexible, and future-ready. The SZ144 supports an always-on network with intra-cluster, inter-cluster failover aiding disaster recovery best practices. Features like multi-standards API support, OpenRoaming, network health metrics keeps the network flexible. Additionally, containerization migration, the move to microservices, and dynamic scaling keeps SmartZone networks future-proof.

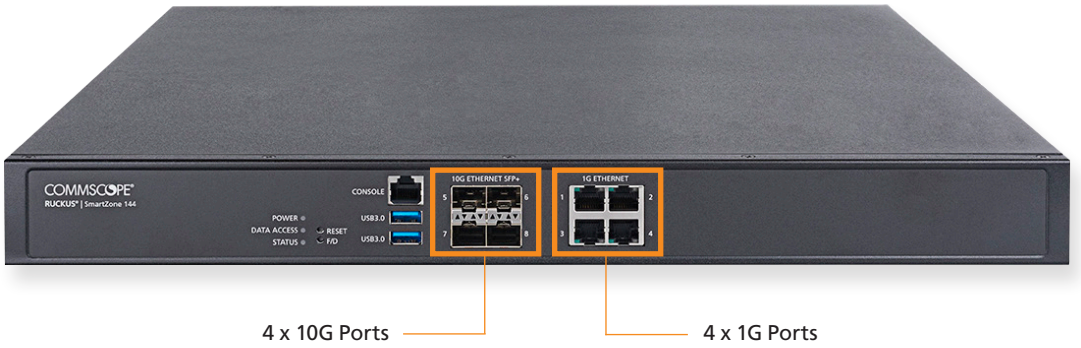


HARDWARE FEATURES

- 1RU rack-mountable chassis footprint
- Redundant removable fans
- Easy discovery from PC using UPnP
- One-year warranty coverage

SOFTWARE FEATURES

- Simplified, Intuitive GUI
- Installation Wizard
- Ruckus SPoT LBS Location support
- WIDS/WIPS (Rogue AP Detection/ Prevention)
- Bonjour Gateway (at AP)
- Capacity-based client admission control
- Band Balancing
- Internal Captive Portal (Radius, AD, LDAP, Local DB)
- AP Survivability for Guest, Captive Portal
- Zero-IT (using 802.1x)
- User Roles
- Device Policy Control
- Per WLAN ACL Support (L2 white/black list, L3, L4)
- Multi-hop for mesh testing
- Force DHCP
- AP discovery
- Restful/JSON API



4 x 10G Ports

4 x 1G Ports

3 x Redundant Fans

Product Information	
Products	• P01-S144-XX00 - SmartZone 144 - (4x) 1GbE & (4x) 10GbE ports
Management Licenses	• L09-0001-SG00: Access Point Management license for SZ-100/vSZ 3.X, 1 RUCKUS AP access point • L09-0001-SGCX: Switch Management license for SZ-100/vSZ 3.X, 1 RUCKUS ICX switch • L09-0001-RXGW: Soft GRE tunnel license from AP to 3rd Party concentrator
Accessories & Spares	• 902-S110-0000: KIT Spare (FRU) AC Power Supply unit for SZ144 • 902-S120-0000: KIT Spare (FRU) Fan Unit for SZ144)
URL Filtering	• S01-URL1-1LSZ: SmartZone URL Filtering 1 year subscription for 1 AP • S01-URL1-3LSZ: SmartZone URL Filtering 3 year subscription for 1 AP • S01-URL1-5LSZ: SmartZone URL Filtering 5 year subscription for 1 AP • S01-URL1-1LSZ: SmartZone URL Filtering 1 year subscription renewal for 1 AP • S01-URL1-3LSZ: SmartZone URL Filtering 3 year subscription renewal for 1 AP • S01-URL1-5LSZ: SmartZone URL Filtering 5 year subscription renewal for 1 AP

Capacity	SZ144
Managed APs	• Up to 2,000 per controller • Up to 6,000 per cluster
Managed Switches	• Up to 400 per controller • Up to 1200 per cluster
WLANs (BSSIDs)	• Up to 2,048
VLANS	• Up to 4,096
Concurrent Devices	• Up to 40,000 per controller • Up to 120,000 per cluster

Key Functionality		
Device Management	• RUCKUS Wi-Fi APs supported: R850, R750, R730, R720, R710, R650, R610, R550, R510, R320, R310, M510, H510, C110, H320, E510, T811CM, T750, T750SE, T710, T710S, T610, T610S, T504, T310, T301, FZM300, FZP300 • RUCKUS ICX 700 series switches running FastIron 8.0.80 and above supported; FastIron 80.0.90a required for Zero-Touch Provisioning	
Device Type Support	• Wi-Fi APs, Switches	
Controller Expansion	• Up to 4 controllers in N+1 active-active mode, supporting non-disruptive capacity expansion	
Controller Redundancy	• 3+1 distributed data preserving with N+1 redundancy within a cluster	
Data Offload	• Local offload of traffic directly to the Internet	
AP	• WPA, WPA2-AES, 802.11i, 802.1x/EAP, PSK, WISPr, WEP, WPA3, Enhanced Open, MAC Address* • Fast EAP-SIM re-authentication • EAP-SIM, EAP-AKA, EAP-AKA over WLAN for 802.1x • Wi-Fi Locations with the SZ AAA-Proxy functionality enabled	
User Database	• Internal database up to 25,000 users • External: RADIUS, LDAP, Active Directory	
Access Control	• L2 (MAC address-based) L3/4 (IP and Protocol based) • L2 client isolation • Management interface access control	• Time-based WLANs • Device type access policies • Two-factor authentication password, SMS
Wireless Intrusion Detection (WIDS/ WIPS)	• Rogue AP detection / prevention • Evil-twin/AP spoofing detection	• Ad hoc detection

Key Functionality (continued)		
AAA	• RADIUS (primary and backup)	
Hotspot	• WISPr, Wi-Fi CERTIFIED, Passpoint™, HotSpot 2.0*	
Guest Access	• Supported	
Captive Portal	• Supported	
Mesh	• Self-healing, Self-forming, Zero-touch provisioning	
Media	• 802.11e/WMM, U-APSD, Wi-Fi Calling Prioritization*	
mDNS Bonjour Fencing	• Supported	
WISPr	• WISPr authentication, SZ downlink AP Survivability*	
Software Queues	• Per traffic type (4), per client	
SmartCast Traffic Classification	• Automatic, heuristics and TOS based or VLAN-defined	
Rate Limiting	• Supported	
WLAN Prioritization	• Supported	
Client Load Balancing	• Automatic	
Band Load Balancing	• Supported	
AP Provisioning	• L3 or L2 auto-discovery • Auto-software upgrade	• Automatic channel optimization
Configuration Management	• Secure multi-operator login (RBAC) • Large scale (bulk) AP management tools • Switch software and firmware upgrades • Switch configuration management • Per zone firmware versioning control • Configuration audit trails	• Alarm and event notification (SNMP V1 / V2 / V3) • Event Logging (Syslog) • Integrated on-board remote accessible EMS functionality • RESTful APIs (JSON) • Web-UI • CLI

* SmartZone controllers do not contain embedded radios or antennas

Physical Characteristics	
Power	• (FRU Option) AC hot-swappable power supply • AC power consumption: 135W • Power Rating: 100-127VAC/200-240VAC, 47-63HZ
Dimensions	• 1RU rack mountable: 435 mm (W) x 522 mm (D) x 44 mm (H); 17.13 in (W) x 20.55 in (D) x 1.73 in (H)
Weight	• 6.97 kg, 15.37 lb
Connections	• 4 - 1GbE ports • 4 - 10GbE ports
LED	• Front panel LEDs, one rear LED
Fans	• Three (Field-Swappable fans FRU 902-S120-0000)
Mean-Time-Between-Failure (MTBF)	• At 25C: 167,007 hours • With 2x fans and 1x AC power supply unit
Environmental Conditions	• Operating Temperature: 0°C (32°F) – 40°C (104°F) • Operating Humidity: 5% to 95%, noncondensing • Humidity storage: 95%, non-condensing

Regulatory/Certifications	
USA/Canada - FCC + IC, NRTL	• FCC Part 15B Class A, ICES-003 Class A, UL/CSA 62368-1
Europe/EU/EEA - CE	• EN55032/EN55035 - Class A, EN/IEC 62368-1
Japan - VCCI	• VCCI CISPR 32
Australia/New Zealand	• AS/NZS CISPR 32
Taiwan - BSMI	• CNS13438, CNS14336-1
Argentina - SMARK	• IEC 60950-1
Brazil - ANATEL	• No 442
China - CCC	• GB4943.1, GB/T9254
S. Korea - KCC	• KN32, KN35
South Africa - SABS, NRCS-LOA	• SANS IEC 60950

PSU Certification	
USA/Canada – NRTL	• UL/CSA 62368-1
Europe – CE, TUV	• EN55032, EN/IEC 62368-1
China - CCC	• GB9254, GB4943, GB17625
Taiwan - BSMI	• CNS 14336-1
Argentina - SMARK	• IEC 60950-1
India - BIS	• IS 13252
S. Korea - KC + KCC	• KN32, KN35
Mexico - UL NOM	• NOM-001
South Africa - NRCS-LOA	• SANS IEC 60950

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