

RUCKUS® AV switches—ICX® 8200

Enterprise-class stackable access switch for Pro AV

The RUCKUS AV ICX 8200 switches are switches designed purposely for professional AV networks. These intelligent, scalable AV switches levels up the professional AV-over-IP performance and reliability to the enterprise-class functionality at an affordable price.

The RUCKUS ICX 8200 raises the bar with 25 GbE for uplinks or stacking, VXLAN, advanced L2/L3 features and market-leading stacking density with up to 12 switches per stack. In addition, the RUCKUS ICX 8200 combines enterprise-class features, manageability, performance, and reliability with the flexibility, cost effectiveness, and "pay as you grow" scalability of a stackable solution.

Benefits

Gigabit access and 25G uplink/stacking ports for multi-location end-to-end AV networking

- 8, 24 and 48 Gigabit Ethernet ports
- Up to 4X 10/25 Gbps SFP28 uplink/stacking ports
- All ICX 8200 switches are interoperable and can stack together

Power next-generation access points (APs) and power over Ethernet (PoE) devices

- PoE+ 802.3at, 30 watts per port on all ports
- Redundant power supply boots up the total PoE planning up to 1,440 W PoE budget

Easy-setup AV profile for instant AV network setup

- RUCKUS Unleashed™ switches discover and management for quick and intuitive web GUI switch settings
- Easy-to-use AV profile with verified presets, letting you set up your AV network within minutes
- Templates optimized for popular pro AV end points including Dante, NDI, Crestron, and Q-Sys

Enhanced security and data privacy

VXLAN support for advanced network segmentation and data confidentiality

Advanced L3 routing delivers network design flexibility

- IPv4 and IPv6 L3 routing
- Static routes, RIP, OSPF, VRRP, VRF, GRE, PIM, PBR

Enhanced availability

Redundant, load-sharing power supplies and fans on specific models

Services and support included

- Three years remote TAC support included with every ICX 8200 model
- Limited lifetime warranty

These stackable RUCKUS ICX 8200 models offer a single integrated power supply, one RJ45 Ethernet port for out-of-band network management, one USB Type-C port for console management, and one USB port for external file storage.



ICX 8200-C08PFV PoE

- Designed for AV rack, in-wall, or desktop installations
- 8X 1/100/1000 Mbps RJ45 802.3at PoE+ ports
- 2X 1/10 GbE uplink/stacking SFP+ ports
- · 124 W PoE budget
- Fan-less



ICX 8200-24PV PoE

- Designed for AV rack or in-wall installations
- · 24X 1/100/1000 Mbps RI45 802.3at PoE+ ports
- 4X 1/10/25 GbE uplink/stacking SFP28 ports
- · 370 W PoE budget



ICX 8200-48P PoE

- · 48X 1/100/1000 Mbps RJ45 802.3at PoE+ ports
- 4X 1/10/25 GbE uplink/stacking SFP28 ports
- · 370 W PoE budget



ICX 8200-48PF PoE

- · 48X 1/100/1000 Mbps RJ45 802.3at PoE+ ports
- 4X 1/10/25 GbE uplink/stacking SFP28 ports
- · 740 W PoE budget



ICX 8200-48PF2 PoE

- · 48X 1/100/1000 Mbps RJ45 802.3at PoE+ ports
- 4X 1/10/25 GbE uplink/stacking SFP28 ports
- 1,440 W PoE budget with two PSUs (740 W with one PSU)
- Dual hot-swappable power supplies and fans

RUCKUS ICX 8200 feature/model comparison

	RUCKUS ICX8200-C08PFV	RUCKUS ICX8200-24PV	RUCKUS ICX8200-48P	RUCKUS ICX8200-48PF	RUCKUS ICX8200-48PF2
Basic switch information					
Switching capacity (data rate, full duplex)	56 Gbps	248 Gbps	296 Gbps	296 Gbps	296 Gbps
Forwarding capacity (data rate, full duplex)	42 Mpps	184 Mpps	220 Mpps	220 Mpps	220 Mpps
10/100/1000 Mbps RJ45	8	24	48	48	48
1/10 Gbps SFP/SFP+ uplinks	2				
1/10/25 Gbps SFP/SFP+/SFP28 uplinks		4	4	4	4
PoE/PoE+ 802.3at ports	8	24	48	48	48
Dual hot-swap power supplies and fan modules					Yes
Max PoE Class 3 ports (15.4 W per port)	8	24	48	48	48
Max PoE+ Class 4 ports (30 W per port)	4	12	12	24	48 (2 PSU)
Energy-efficient Ethernet (802.3az)	Yes				
Base IPv4/v6 Layer 3 routing (static routing, RIP)	Yes				
Advanced IPv4/v6 Layer 3 (OSPF, VRRP, VRF, GRE, PIM, PBR)	With license				
Aggregated stacking bandwidth (data rate, full duplex)	240 Gbps 1.2 Tbps				
Stacking density (maximum switches in a stack)	12				
Stacking ports (maximum ports usable for stacking)	Up to 2×10 GbE SFP+ Up to 4×25 GbE SFP28				
Maximum stacking distance (distance between stacked switches)	10 km				

RUCKUS ICX 8200 feature/model comparison

	RUCKUS ICX8200-C08PFV	RUCKUS ICX8200-24PV	RUCKUS ICX8200-48P	RUCKUS ICX8200-48PF	RUCKUS ICX8200-48PF2
Power					
Alternating current (AC) power connector	C14				
Input voltage and frequency	AC: 100 to 240 VAC @ 50 to 60 Hz				
Power supply hold-up time	10 ms	20 ms	20 ms	10 ms	10 ms
Maximum power supply rating (AC)	240 W	525 W	525 W	880 W	920 W × 2
PoE power budget (AC)	124 W	370 W	370 W	740 W	740 W (1 PSU) 1,440 W (2 PSU)
Switch power usage (25°C) 10% traffic* (no PoE load) 100% traffic** (full PoE load)	18 W 150 W	36 W 445 W	49 W 451 W	51 W 854 W	86 W 1,667 W
Airflow	Fanless	Fanless Front and side to back or fanless mode *** Front and side to back		Front and side to back	
Switch power dissipation (25°C) 10% traffic* (no PoE load) 100% traffic** (full PoE load)			294 BTU/hr 775 BTU/hr		
Mechanical and environment					
Net weight	2.27 kg 5.00 lb	4.34 kg 9.57 lb	5.57 kg 12.28 lb	5.51 kg 12.15 lb	6.39 kg 14.08 lb
Dimensions Height	4.40 cm 1.73 inches	4.40 cm 1.73 inches	4.40 cm 1.73 inches	4.40 cm 1.73 inches	4.40 cm 1.73 inches
Width	27.00 cm 10.63 inches	44.00 cm 17.32 inches	44.00 cm 17.32 inches	44.00 cm 17.32 inches	44.00 cm 17.32 inches
Depth	21.40 cm 8.42 inches	28.00 cm 11.02 inches	37.00 cm 14.57 inches	37.00 cm 14.57 inches	37.00 cm 14.57 inches
Acoustics (25°C, min fan speed)	Fanless	41.0 dBA	41.0 dBA	41.0 dBA	51.0 dBA
MTBF (25°C)	2,007,096 hr	1,550,360 hr	1,297,288 hr	1,070,987 hr	561,966 hr
Management port					
USB Type-C port (For console management)			Yes		
RJ45 serial port (For serial console management)	Yes				
USB Type-A port (For external file storage)	Yes				
RJ45 Ethernet port (For out-of-band network management)	Yes				

^{*} All downlink ports, stacking ports, and uplink ports are linked up with 10% traffic rate. No PoE load on PoE models. Fans are at nominal speed.

^{**} All downlink ports, stacking ports, and uplink ports are linked up with 100% traffic rate. 100% PoE load on PoE models. Fans are at high speed.

^{***} In fanless mode, 25 GbE ports are restricted to 10 GbE max speed and PoE budget is restricted to 150 W max per switch.

Features	Specifications			
Connector options	 10/100/1000 Mbps RJ45 1/10 Gbps SFP+ ports 1/10/25 Gbps SFP28 ports Out-of-band Ethernet management: 10/100/1000 Mbps RJ45 	 USB Type-C port with serial communication device class support File transfer: USB port, standard-A plug For the latest information about supported optics, please visit www.ruckusnetworks.com. 		
Memory	DRAM: 4 GB NVRAM (eMMC): 8 GB Packet buffer size: 4 MB			
Maximum MAC addresses	· 32k			
Maximum VLANs	· 4,095			
Maximum PVLANs	· 32			
Maximum STP (spanning trees instances)	• 253			
Maximum VEs	• 512			
Maximum ARP entries	• 8,192			
Maximum routes (in hardware)	16k IPv4, 4k IPv6Next hop address: 8k			
Trunking	Maximum ports per LAG: 8 Maximum link aggregation groups: 128			
Maximum jumbo frame size	• 9,216 bytes	• 9,216 bytes		
QoS priority queues	Eight per port			
Multicast groups	4096 (Layer2 IGMP) 512 (Layer2 MLD)4096 (IPv4 PIM) 512 (IPv6 PIM)			
Quality of Service (QoS)	 ACL mapping and marking of ToS/DSCP (CoS) ACL mapping and marking of 802.1p ACL mapping to priority queue Classifying and limiting flows based on TCP flags DiffServ support 	 Honoring DSCP and 802.1p (CoS) MAC Address mapping to priority queue Priority queue management using weighted round robin (WRR), strict priority (SP), and a combination of WRR and SP 		
Traffic management	 ACL-based inbound rate limiting and traffic policies Broadcast, multicast, and unknown unicast rate limiting Inbound rate limiting per port Outbound rate limiting per port and per queue 			
Security	 802.1X authentication MAC authentication Flexible authentication Web authentication DHCP snooping Dynamic ARP inspection Neighbor discovery (ND) inspection Bi-level access mode (standard and EXEC level) EAP pass-through support IEEE 802.1X username export in sFlow Protection against Denial of Service (DoS) attacks Authentication, authorization, and accounting (AAA) 	 MAC Address locking MAC port security Advanced Encryption Standard (AES) with SSHv2 RADIUS/TACACS/TACACS+ Secure copy (SCP) Secure shell (SSHv2) Protected ports Local username/password Change of authorization (CoA) RFC 5176 Trusted platform module RADSEC (RFC 6614) Encrypted Syslog (RFC 5425) 		

Features	Specifications		
SDN features	 OpenFlow1 v1.0 and v1.3 Operates with OpenDayLight controller OpenFlow hybrid port mode (supports both OpenFlow traffic forwarding and regular traffic forwarding on the same port) 		
High availability	 Layer 3 VRRP/VRRP-E protocol redundancy Real-time state synchronization across the stack Hitless failover and switchover from master to standby stack controller Hot insertion and removal of stacked units Layer 2 VSRP switch redundancy In Service Software Update (ISSU) 		
Layer 2 feature set	 802.1s multiple spanning tree 802.1x authentication Port loop detection Auto MDI/MDIX BPDU Guard, Root Guard Dual-mode VLANs MAC-based VLANs, Dynamic MAC-based VLAN activation Dynamic VLAN assignment Dynamic voice VLAN assignment Fast port span GVRP: GARP VLAN Registration Protocol IGMP snooping (v1/v2/v3) IGMP proxy for static groups IGMP v2/v3 fast leave Inter-packet gap (IPG) adjustment Link fault signaling (LFS) MAC Address filtering 	 MAC learning disable MLD snooping (v1/v2) Multi-device authentication Per-VLAN spanning tree (PVST/PVST+/PRST) Mirroring: Port-based, ACL-based, MAC filter-based, and VLAN-based PIM-SM v2 snooping Private VLAN Remote fault notification (RFN) Single-instance spanning tree Trunk groups (static, LACP) Uni-directional link detection (UDLD) Metro-Ring Protocol (MRP) v1, v2 Virtual Switch Redundancy Protocol (VSRP) Q-in-Q and selective Q-in-Q VLAN mapping Topology groups 	
Base Layer 3 IP routing feature set	 ACL-bas IPv4 and IPv6 static routes RIP v1/v2, RIPng ECMP Port-based access control lists Layer 3/Layer 4 ACLs 	 Host routes Virtual interfaces Routed interfaces Route-only support Routing between directly connected subnets 	
Premium Layer 3 IP routing feature set with software license	 IPv4 and IPv6 dynamic routes OSPF v2, v3 PIM-SM, PIM-SSM, PIM-DM, PIM passive (IPv4, IPv6) PBR 	 Virtual Route Redundancy Protocol VRRP (IPv4) VRRP v3 (IPv6) VRRP-E (IPv4/IPv6) VRF (IPv4 and IPv6) GRE 	

Features	Standard compliance		
IEEE standards compliance	 802.1AB LLDP/LLDP-MED 802.1D MAC bridging 802.1p mapping to priority queue 802.1s multiple spanning tree (MST) 802.1w rapid reconfiguration of spanning tree (RSTP) 802.1x port-based network access control (PNAC) 802.3 CSMA/CD carrier sense multiple access/collision detection (CSMA/CD) 802.3ab 1000BASE-T 802.3ad link aggregation (dynamic and static) 802.1 AX-2008 link aggregation 	 802.3ae 10 Gigabit Ethernet 802.3af power over Ethernet Plus 802.3bz multigigabit Ethernet 802.3bz multigigabit Ethernet 802.3u 100Base-TX 802.3x flow control 802.3z 1000Base-SX/LX 802.3 MAU MIB 802.1Q VLAN tagging 802.1BR bridge port extension 802.3az energy-efficient Ethernet 802.3bt PoE++ 	
RFC standards compliance	For a complete list of RFCs supported by the ICX 8200 product family, please visit www.ruckusnetworks.com.		

Features	Management features		
Management	DHCP auto-configuration Configuration logging	Bootp SNMPv1/v2c	
	Digital optical monitoring Display log messages on multiple terminals	DHCP server and DHCP relay SNMPv3 intro to framework	
	Embedded web management (HTTP/HTTPS) Embedded DHCP server	Architecture for describing SNMP framework SNMP message processing and dispatching	
	Industry-standard command line interface (CLI) CLI activation of optional software features	SNMPv3 applications SNMPv3 user-based security model	
	USB file management and storage Macro for batch execution	SNMP view-based access control model SNMP sFlow	
	Out-of-band Ethernet management RSPAN	Network Time Protocol (NTP) Multiple Syslog servers	
	TFTPTELNET client and server	• SCP	
	• SSH / SSH V2	Virtual cable tester (VCT) For management MIB, please see the ICX technical documentation at www.ruckusnetworks.com.	

Features	Compliance/certification
Electromagnetic emissions	 FCC Part 15, Subpart B (Class A) EN 55032 (CE mark) (Class A) EN 55035 (CE mark) (Immunity) for Information Technology Equipment EN 55024 (CE mark) (Immunity) for Information Technology Equipment ICES-003 (Canada) (Class A) AS/NZ 55032 (Australia/New Zealand) (Class A) VCCI (Japan) (Class A) EN 300 386 CNS 15936-1 (BSMI) (Taiwan) (Class A) KN 32 (South Korea) (Class A) KN 35 (South Korea) (Class A) TCVN 7189 / TCVN 7317 (Vietnam) (Class A) EN 61000-3-2 EN 61000-3-3
Safety	CAN/CSA-C22.2 No. 62368-1/UL 62368-1—Safety of Information Technology Equipment EN 60825 Safety of Laser Products—Part 1: Equipment Classification, Requirements and User's Guide EN 60950-1/IEC 60950-1/EN 62368-1/EC 62368-1 Safety of Information Technology Equipment CNS 15598-1 (BSMI) (Taiwan)
Environmental regulatory compliance	 2014/35 and 2014/30/EU 2011/65/EU—Restriction of the use of certain hazardous substance in electrical and electronic equipment (EU RoHS) 2012/19/EU—Waste electrical and electronic equipment (WEEE) 94/62/EC—packaging and packaging waste (EU) 2006/66/EC—batteries and accumulators and waste batteries and accumulators (EU battery directive) 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (EU REACH) Section 1502 of the Dodd-Frank Wall Street Reform and Consumer Protection Act of 2010—U.S. Conflict Minerals 30/2011/TT-BCT—Vietnam circular SJ/T 11363-2006 Requirements for Concentration Limits for Certain Hazardous Substances in EIPs (China) SJ/T 11364-2006 Marking for the Control of Pollution Caused by EIPs (China) CNS 15663 (BSMI) (Taiwan)
Vibration	• IEC 68-2-36, IEC 68-2-6
Shock and drop	• IEC 68-2-27, IEC 68-2-32

Features	Environment	
Ambient temperature	Operational: 0°C to 45°C (32°F to 113°F) at sea level Non-operational: 40°C to 70°C (-40°F to 158°F)	
Relative humidity (non-condensing)	 Operational: 10% to 90% at 50°C (122°F) Non-operational: 10% to 90% at 70°C (158°F) 	
Altitude (above sea level)	 Operational 0 to 3,048 m (10,000 ft) Non-operational: 0 to 12,000 m (39,370 ft) 	

Order information

AV Switches

Part number	Descriptions
ICX8200-C08PFV	RUCKUS AV ICX 8200 compact switch • 8×10/100/1000 Mbps PoE+ ports • 2×10 GbE SFP+ stacking/uplink ports • 124 W PoE budget • RUCKUS Unleashed AV profile compatible • US power cord and USB-C console cable included • Three-year remote TAC support
ICX8200-24PV	RUCKUS AV ICX 8200 switch · 24×10/100/1000 Mbps PoE+ ports · 2×25 GbE SFP28 stacking/uplink ports · 370 W PoE budget / 150 W PoE budget turned off the fan · RUCKUS Unleashed AV profile compatible · US power cord and USB-C console cable included · Three-year remote TAC support
ICX8200-48P	RUCKUS AV ICX 8200 switch • 48×10/100/1000 Mbps PoE+ ports • 4×25 GbE SFP28 stacking/uplink ports • 370 W PoE budget / 150 W PoE budget turned off the fan • RUCKUS Unleashed AV profile compatible • Three-year remote TAC support
ICX8200-48PF	RUCKUS AV ICX 8200 switch • 48×10/100/1000 Mbps PoE+ ports • 4×25 GbE SFP28 stacking/uplink ports • 740 W PoE budget • RUCKUS Unleashed AV profile compatible • Three-year remote TAC support
ICX8200-48PF2-E2	RUCKUS AV ICX 8200 switch • 48×10/100/1000 Mbps PoE+ ports • 4×25 GbE SFP28 stacking/uplink ports • 1,440 W PoE budget • RUCKUS Unleashed AV profile compatible • Three-year remote TAC support

Accessories

Part number	For	Descriptions
RPS23-E	ICX 8200-48PF2	Hot-swap 920 W AC PoE power supply, front-to-back airflow. Only applicable to the ICX 8200 models with hot-swap power supplies (up to two per switch). Power cord not included.
ICX-FAN13-E	ICX 8200-48PF2	Hot-swap fan tray front-to-back airflow. Only applicable to the ICX 8200 models with hot-swap fans (up to two per switch).
XBR-R000295	ICX 8200-48P/PF/PF2	1U, 1.5U, and 2U universal kit for four-post racks
ICX7000-RMK	ICX 8200-48P/PF/PF2	Two-post fixed rack mount kit
ICX-C-BLK-RMK	ICX 8200-C08PFV	Rack mount kit for compact switches
ICX7000-C12-WMK	ICX 8200-C08PFV	Wall mount bracket kit for compact switches
ICX-DIN-MNT	ICX 8200-C08PFV	DIN rail mount kit for compact switches
ICX8200-PREM-LIC	All ICX 8200	ICX 8200 Layer 3 premium license. Enables advanced layer 3 features (OSPF, VRRP, PIM, PBR, VRF, GRE)
CC-USBC-USBA	All ICX 8200	USB 2.0 Cable, Type-C to Type-A, 1 meter (for USB Type-C console port; already included in ICX8200-C08PFV and ICX8200-24PV)
PCUSA2	All ICX 8200	C13 power cord for USA, NEMA5-15/C13, 13A, 125V (already included in ICX8200-C08PFV and ICX8200-24PV)
PCEURO	All ICX 8200	C13 power cord for Europe
PCAUS	All ICX 8200	C13 power cord for Australia
PCCHINA2-IEC309	All ICX 8200	C13 power cord for China, 250 V 10 A
PCINDIA	All ICX 8200	C13 6-ft AC power cord for India
PCJAPAN	All ICX 8200	C13 power cord for Japan version
PCSWISS-C1312G-HF	All ICX 8200	C13 power cord for Switzerland, SEV1011 TO C13, 10 A, 250 V, halogen-free
PCUK	All ICX 8200	C13 power cord for United Kingdom
PC-C13C14	All ICX 8200	C13/C14 15A power cord

Warranty

RUCKUS AV ICX 8200 switches are covered by the RUCKUS Assurance Limited Lifetime Warranty. For details, visit www.ruckuswireless.com/warranty.

Exceptional support

RUCKUS ICX 8200 switches are supported by next-business-day advance replacement where available, as well as software defect repairs and maintenance updates. Three years remote TAC support is included with the product purchase (extends to 39 months from the original ship date). Many on-site and TAC support options are available and can be purchased bundled with the product or separately.

Legal disclaimer

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About RUCKUS Networks

RUCKUS Networks builds and delivers purpose-driven networks that perform in the demanding environments of the industries we serve. Together with our network of trusted go-to-market partners, we empower our customers to deliver exceptional experiences to the guests, students, residents, citizens and employees who count on them.

www.ruckusnetworks.com

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