SR2200 / SR2300 Switches

Enterprise cloud-managed access switches provide unified wired and wireless access with centralized management and visibility across the entire network.

The Aerohive SR series switches utilize the power of the enterprise cloud to provide unified wired and wireless access with centralized management and visibility across the entire network visibility, and reduces the time and complexity of initial switch deployments, expansions, upgrades and network refreshes.

The SR switches provide energy-efficient gigabit Layer 3-Lite capabilities with flexible Power over Ethernet (PoE) options, as well as a wealth of port density options. Critical capabilities, such as zero-touch provisioning, and powerful QoS make these switches a complement to any enterprise network.

The SR2208P fanless desktop switch offers quick and easy wiring closet extensions, while the SR2224P, an entry-level access switch, offers simple wiring closet expansion. The SR2324P and SR2348P provide premium bandwidth and port density access on the edge of the network.

The SR switch series is a key component of the Aerohive Connect solution which provides cloud-managed connectivity. Connect is centrally managed from the cloud, allowing for simple, fast, and powerful management.

AEROHIVE CONNECT COMPONENTS

**ENTERPRISE CONNECTIVITY**
- Variety of port density options
- Layer 3-Lite functionality
- Flexible PoE options
- IPv6 capable
- Energy-efficient

**CLOUD MANAGEMENT**
- Network Device and Client Monitoring
- Global Search and Filter function
- Auto-Provisioning Tools for quick and easy deployment
- Network Health View
- Guided Network Configuration Setup

**HIVECARE SUPPORT**
- HiveCare Community Support: forum-based interactive support
- HiveCare Connect CallBack service (optional)
- Wide array of online resources and tools

**DIMENSIONS, INTERFACES, AND POE BUDGET**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DIMENSIONS (WxDxH, mm)</th>
<th>DOWNLINK PORTS</th>
<th>UPLINK PORTS</th>
<th>POE BUDGET</th>
<th>SWITCHING CAPACITY</th>
<th>MTBF</th>
</tr>
</thead>
<tbody>
<tr>
<td>SR2208P</td>
<td>279 x 170 x 44</td>
<td>8 x 1 GE ports</td>
<td>2 x 1GE dual media (SFP and copper)</td>
<td>124W</td>
<td>20 Gbps</td>
<td>1,209,148 hours</td>
</tr>
<tr>
<td>SR2224P</td>
<td>440 x 240 x 44</td>
<td>24 x 1 GE ports</td>
<td>4 x 1 GE SFP</td>
<td>180W</td>
<td>56 Gbps</td>
<td>2,490,009 hours</td>
</tr>
<tr>
<td>SR2324P</td>
<td>440 x 240 x 44</td>
<td>24 x 1 GE ports</td>
<td>4 x 10GE SFP+</td>
<td>370W</td>
<td>128 Gbps</td>
<td>1,489,636 hours</td>
</tr>
<tr>
<td>SR2348P</td>
<td>440 x 350 x 44</td>
<td>48 x 1 GE ports</td>
<td>4 x 10 GE SFP+</td>
<td>740W</td>
<td>176 Gbps</td>
<td>1,489,636 hours</td>
</tr>
</tbody>
</table>
PRODUCT SKUs

<table>
<thead>
<tr>
<th>SKU</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>AH-SR-2208P</td>
<td>SR2208P, 8 x GE RJ45 copper ports, 2 x dual media (fiber/copper) GE ports, 124W POE budget, L3 Lite Static Routing</td>
</tr>
<tr>
<td>AH-SR-2224P</td>
<td>SR2224P, 24 x GE RJ45 copper ports, 4 x GE SFP ports, 180W POE budget, L3 Lite Static Routing</td>
</tr>
<tr>
<td>AH-SR-2324P</td>
<td>SR2324P, 24 x GE RJ45 copper ports, 4 x 10GE SFP+ ports, 370W POE budget, L3 Lite Static Routing</td>
</tr>
<tr>
<td>AH-SR-2348P</td>
<td>SR2348P, 48 x GE RJ45 copper ports, 4 x 10GE SFP+ ports, 740W POE budget, L3 Lite Static Routing</td>
</tr>
</tbody>
</table>

PRODUCT SPECS

SWITCHING

Core Switching Features
- IEEE 802.1AB—Link Layer Discovery Protocol (LLDP)
- IEEE 802.1D—Spanning tree compatibility
- IEEE 802.1p—Ethernet priority with user provisioning and mapping
- IEEE 802.1s—Multiple spanning tree compatibility
- IEEE 802.1Q—Virtual LANs with port-based VLANs
- IEEE 802.1AD—Port-based authentication with Guest VLAN support
- IEEE 802.1W—Rapid spanning tree compatibility
- IEEE 802.1Q—10BASE-T
- IEEE 802.3—10BASE-T
- IEEE 802.3ab—100BASE-T
- IEEE 802.1ad—Link aggregation
- IEEE 802.3x—Flow control
- Static Routing

GARP—Generic Attribute Registration Protocol: clause 12, IEEE 802.1D-2004
GMRP—Dynamic Multicast registration: clause 10, IEEE 802.1D-2004
GVRP—Dynamic VLAN registration: clause 11.2, IEEE 802.1Q-2003
RFC 4541—Considerations for Internet Group Management Protocol (IGMP) Snooping Switches
ANSTA-1057—LLDP Media Endpoint Discovery (MED)
RFC 5171—Unidirectional Link Detection (UDDL) Protocol

Advanced Layer-2 Features
- Authentication, Authorization, and Accounting (AAA)
- Broadcast Storm Recovery
- Broadcast/Multicast/Unicast storm recovery
- GHCP Snooping Querier
- Multicast VLAN Registration (MVR)
- Independent VLAN Learning (IVL) support
- IPv6 Classification APIs
- Jumbo Ethernet frame support
- Port MAC locking
- Port mirroring
- Protected ports
- Static MAC filtering
- TACACS+
- Voice VLANs
- Unauthenticated VLAN
- Internal 802.1X Authentication Server
- CLI Filtering
- Switchport mode configuration
- Link Dependency
- IPv6 RA Guard (Stateless)

SECURITY

- Permit/deny actions for inbound IP and Layer-2 traffic classification based on:
  - Time-Based ACL
  - Source/Destination IP address
  - TCP/UDP Source/Destination port
  - IP Protocol Type
  - Type of Service (ToS) or differentiated services (DSCP) field
- Source/Destination MAC address
- Ethernet Type
- IEEE 802.1p user priority (outer and/or inner VLAN tag)
- VLAN ID (outer and/or inner VLAN tag)
- RFC 1588—Security Considerations for IP Fragment Filtering

Optional ACL Rule Attributes
- Assign flow to a specific Class of Service (CoS) queue
- Redirect matching traffic flows

SYSTEM FACILITIES
- Event and error logging facility
- Run-time and configuration download capability
- RFC 2699—DHCP extensions
- Xmodem
- FTP transfers via IPv4/IPv6
- Malicious Code Detection
- RFC 768—UDP
- RFC 783—TFTP
- RFC 791—IP
- RFC 793—ICMP
- RFC 793—TCP
- RFC 866—ARP
- RFC 869—Transmission of IP datagrams over Ethernet networks
- RFC 869—Congestion control in IP/TPCP networks
- RFC 951—BOOTP
- RFC 1034—Domain names—concept and facilities
- RFC 1232—Message digest algorithm
- RFC 1354—Interoperability between BOOTP and DHCP
- RFC 2030—Simple Network Time Protocol (SNTP)
- RFC 2131—DHCP relay
- RFC 2132—DHCP options and BOOTP vendor extensions
- RFC 2819—Remote Network Monitoring Management Information Base
- RFC 2866—RADIUS accounting
- RFC 2868—RADIUS attributes for tunnel protocol support
- RFC 2884—RADIUS Extensions
- RFC 3579—RADIUS support for EAP
- RFC 3580—IEEE 802.1X RADIUS usage guidelines
- RFC 3614—The BSD syslog protocol
- RFC 3580—IEEE 802.1X RADIUS Usage Guidelines
- RFC 5176—Dynamic Authorization Server
- RFC 5176—Dynamic Authorization Server

MANAGEMENT
- HiveManager NG
- Industry-standard CLI
- IPv6 management
- Password management
- Autostart support for firmware images and config files
- SNMP v1, v2, and v3
- SSH 1.5 and 2.0
- RFC 4252—SSH authentication protocol
- RFC 4253—SSH transport layer protocol
- RFC 4254—SSH connection protocol
- RFC 4251—SSH protocol architecture
- RFC 4716—SECSH public key file format
- RFC 4419—Diffie-Hellman group exchange for the SSH transport layer protocol
- SSL 3.0 and TLS 1.0
- RFC 2246—The TLS protocol, version 1.0
- RFC 3518—HTTP over TLS
- RFC 3262—AES cipher suites for transport layer security
- Secure Copy (SCP)
- Telnet

Advanced Management Features
- Industry Standard CLI with the following features:
  - Scripting capability
  - Command completion
  - Context sensitive help
  - Optional user password encryption
  - Multi-session Telnet server

SNMP MIBs

Switching MIBs
- IEEE 802.1X MIB (IEEE 802.1-PAE-MIB 2004 Revision)
- IEEE 802.3AD MIB (IEEE 802.3-AD-MIB)
- IANAType-MIB
- FASTPATH Enterprise MIBs for full configuration support of switching features
- RFC 1213—MIB II
- RFC 1493—Bridge MIB
- RFC 1612—IPv4 resolving MIB extensions
- RFC 1643—Definitions of managed objects for the Ethernet-like interface types
- RFC 2233—Interfaces group MIB using SWI v2
- RFC 2618—MIB-MIB
- RFC 2619—RADIUS authentication client MIB
- RFC 2620—RADIUS accounting MIB
- RFC 2674—VLAN MIB
- RFC 2737—Entity MIB version 2
- RFC 2819—RMON groups 1, 2, 3, and 9
- RFC 2863—RFC 1812
- RFC 2992—Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations
- RFC 3273—RMON Groups 1, 2, and 3
- RFC 3291—Test conventions for Internet network addresses
- RFC 3434—RMON Groups 1, 2, and 3
- RFC 4022—TCP-MIB
- RFC 4113—UDP-MIB

Quality of Service MIBs
- MIBs for full configuration support of DiffServ, ACL, and CoS functionality
- RFC 3289—Management information base for the DiffServ architecture (read-only)

QUALITY OF SERVICE

Classify traffic based on same criteria as ACLs and optionally:
- Mark the IP DSCP or Precedence header field
- Police the flow to a specific rate with two-color aware support
- RFC 2474—Definition of the differentiated services field (DS field) in the IPv4 and IPv6 headers
- RFC 2475—An architecture for differentiated services
- RFC 2597—Assured forwarding Per-Hop Behavior (PHB) group
- RFC 2697—Single-rate policing
- RFC 3246—An expedited forwarding PHB
- RFC 3260—New terminology and classifications for DiffServ

Class of Service (CoS) Queue Mapping Configuration
- AutoVoIP—Automatic CoS settings for VoIP
- IP DSCP-to-queue mapping
- Configurable Input Traffic Mode (IEEE 802.1p, DSCP, or untrusted)
- Interface egress shaping rate
- Strict priority versus weighted scheduling per queue

WARRANTY & SUPPORT

This Aerohive Networks device is backed by a limited lifetime hardware warranty. HiveCare Community Support is included with the Connect Switch. Optional HiveCare Callback service may also be purchased. For complete support terms go to www.aerohive.com/support.