DATA SHEET

SR2200 & SR2300 Switch Series

Enterprise cloud-managed access switches providing unified wired and wireless access with centralized management and visibility across the entire network.
The Aerohive SR series switches utilize the power of a micro-services based cloud to provide unified wired and wireless access with centralized management and visibility across an entire network while reducing 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), 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 and also feature stacking functionality.

Managed by HiveManager, Aerohive’s industry-leading cloud-management platform, deploy SR switches with ease and at scale alongside Aerohive’s distributed control Wi-Fi architecture and cloud-managed branch routing offering for a full-stack distributed access network solution. HiveManager is available as a Public Cloud, Private Cloud or On-Premises offering.
SR2208P

The SR2208P is a fanless desktop switch that offers quick and easy wiring closet extensions.

SR2224P

The SR2224P is an entry level access switch offering simple wiring closet expansion along with ease of management and scalability.
**SR2324P**

The **SR2324P** is a premium stacking-capable access switch that provides high bandwidth and port density access on the network edge.

**SR2348P**

The **SR2348P** is a top-of-the-line stacking-capable access switch with premium port density and ultra-high PoE budget.
Model Commonalities

- Reset button to reset (on press) and load factory default settings
- RJ45 serial console port
- Downlink ports with 802.3af/802.3at PoE/PoE+ with legacy support
- 30 Watts max per port
- 16,000 MAC addresses
- Jumbo Frames (9216 bytes)
- 4095 VLANs

Environmental

- Operating temperature: 0 to +40 °C
- Storage temperature: -25 to +70 °C
- Humidity: 5% to 95% RH (non-condensing)
- Acoustics: (for all 24 and 48 port models)
  - 48 dB max (<25 °C)
  - 53 dBA max (≥25 °C at max fan speed)
- 8 port model is fanless and therefore quiet
- Input voltage 100-240 Volts

Management

Cloud management in the form of HiveManager Connect comes included with all SR switches, free-of-charge. HiveManager Connect uses the cloud to provide a simple, fast and powerful way to centrally management your devices. HiveManager Select provides an extended feature set with additional hosting flexibility (including On-premises and private cloud) and is available as an optional upgrade.
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 802.1X—Port-based authentication with Guest VLAN support
- IEEE 802.1W—Rapid spanning tree compatibility
- IEEE 802.3—10BASE-T
- IEEE 802.3u—100BASE-T
- IEEE 802.3ab—1000BASE-T
- IEEE 802.1ak—Virtual Bridged Local Area Networks - Amendment 07: Multiple Registration Protocol
- IEEE 802.3ac—VLAN tagging
- IEEE 802.3ad—Link aggregation
- IEEE 802.3x—Flow control
- Static Routing
- GARP—Generic Attribute Registration Protocol: clause 12, IEEE 802.1D-2004
- GMRP—Dynamic L2 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
- ANSI/TIA-1057—LLDP-Media Endpoint Discovery (MED)
- RFC 5171—Unidirectional Link Detection (UDLD) Protocol

Advanced Layer-2 Features
- Authentication, Authorization, and Accounting (AAA)
- Broadcast Storm Recovery
- Broadcast/Multicast/Unknown unicast storm recovery
- DHCP Snooping
- IGMP 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
- EtherType
- IEEE 802.1p user priority (outer and/or inner VLAN tag)
- VLAN ID (outer and/or inner VLAN tag)
- RFC 1888—Security Considerations for IP Fragment Filtering

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

Management

- HiveManager
- Industry-standard CLI
- IPv6 management
- Password management
- Autoinstall support for firmware images and configuration 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 4718: 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 2818: HTTP over TLS
- RFC 3288: AES cipher suites for transport layer security
- Secure Copy (SCP)
- Telnet
- Web

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
Software Features (Continued)

System Facilities

- Event and error logging facility
- Run-time and configuration download capability
- PING utility
- Xmodem
- FTP transfers via IPv4/IPv6
- Malicious Code Detection
- RFC 768—UDP
- RFC 783—TFTP
- RFC 791—IP
- RFC 792—ICMP
- RFC 793—TCP
- RFC 826—ARP
- RFC 894—Transmission of IP datagrams over Ethernet Networks
- RFC 896—Congestion control in IPv4/TCP networks
- RFC 951—BOOTP
- RFC 1034—Domain names - concepts and facilities
- RFC 1035—Domain names - implementation and specification
- RFC 1321—Message digest algorithm
- RFC 1534—Interoperability between BOOTP and DHCP
- RFC 2021—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 2865—RADIUS client
- RFC 2866—RADIUS accounting
- RFC 2868—RADIUS attributes for tunnel protocol support
- RFC 2869—RADIUS Extensions
- RFC 2925—Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations
- RFC 3273—RMON Groups 1, 2, and 3
- RFC 3289—Management information base for the DiffServ architecture (read-only)

SNMP MIBs (Continued)

- RFC 2233—Interfaces group MIB using SMI v2
- RFC 2613—SMON MIB
- RFC 2618—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 2883—IF-MIB
- RFC 2925—Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations
- RFC 3273—RMON Groups 1, 2, and 3
- RFC 3434—RMON Groups 1, 2, and 3
- RFC 4022—TCP-MIB
- RFC 4113—UDP-MIB

Quality of Service MIBs

- MIIBs 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 fields
- 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 3289—New terminology and clarifications for DiffServ

Class of Service (CoS) Queue Mapping Configuration

- AutoVoIP — Automatic CoS settings for VoIP
- IP DSCP-to-queue mapping
- Configurable interface trust mode (IEEE 802.1p, DSCP, or untrusted)
- Interface egress shaping rate
- Strict priority versus weighted scheduling per queue
### 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>
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<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>
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<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>
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</table>

### Small Form-factor Pluggable (SFP) Accessory SKUs

**NOTE:** SKUs at left are for individual Aerohive SFP tranceivers; specifications at right describe compatible cables.

<table>
<thead>
<tr>
<th>SKU</th>
<th>ACCESS TYPE</th>
<th>WAVELENGTH (nm)</th>
<th>FIBER TYPE</th>
<th>DESIGNATION</th>
<th>CORE DIAMETER (μm)</th>
<th>CLADDING DIAMETER (μm)</th>
<th>JACKET COLOR</th>
<th>MAX DISTANCE</th>
<th>MIN DISTANCE</th>
<th>DATA RATE</th>
<th>PRODUCT COMPATIBILITY</th>
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<tbody>
<tr>
<td>AH-ACC-SFP-1G-SX</td>
<td>1000 BASE SX</td>
<td>850</td>
<td>MMF</td>
<td>OM1</td>
<td>62.5</td>
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<td>Orange</td>
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<td>MMF</td>
<td>OM4</td>
<td>50</td>
<td>125</td>
<td>Aqua</td>
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<td>10G BASE SR</td>
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<td>OM4</td>
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<td>Yellow</td>
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<tr>
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<td>10G BASE LR</td>
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<td>Yellow</td>
<td>10km</td>
<td>2km</td>
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* Not sold by Aerohive
### Direct Attach Cable (DAC) Accessory SKUs

<table>
<thead>
<tr>
<th>SKU</th>
<th>ACCESS TYPE</th>
<th>CABLE LENGTH</th>
<th>ASSEMBLY TYPE</th>
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<th>PRODUCT COMPATIBILITY</th>
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<td>AH-ACC-SFP-10G-DAC-1M</td>
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<td>1m</td>
<td>Passive Twinax</td>
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<td>2300 Series</td>
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<td>10Gbps SFP+Cu</td>
<td>7m</td>
<td>Passive Twinax</td>
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### Miscellaneous SKUs

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<tr>
<td>AH-ACC-SR-RM-ASM2</td>
<td>SR2224P/SR2324P/SR2348P Rack mount assembly spare</td>
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<tr>
<td>AH-ACC-SR-RM-ASM3</td>
<td>SR2208P Rack mount assembly</td>
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</tbody>
</table>