![Aerohive NETWORKS logo]

Aerohive **SR2024P**
Cloud-enabled enterprise-class gigabit access switch with PoE, 802.1X, integrated routing, and VPN

The Aerohive **SR2024P** is a high-performance 28 port switch with 24 ports 802.3at PoE+ and 4 1-Gigabit SFP ports

Aerohive Networks SR platforms combine enterprise-class access switching with cloud-enabled management, on-demand provisioning, and secure branch routing to provide the industry's most advanced networking feature set to the edge of your network. Built on the deep, feature-rich HiveOS operating system, the SR platforms offer state-of-the-art gigabit switching with advanced features like user-based QoS, storm control, and 802.1X multiple authentication for voice and data coexistence, along with traditional switch features such as LLDP, Spanning Tree, and IGMP snooping. In addition, the SRs accelerate branch consolidation efforts by integrating secure branch routing, 3G/4G connectivity, and advanced switching to provide an all-in-one solution for branch offices. Combining these capabilities with cloud-based services such as on-demand provisioning, hands-free configuration and updates, and unified wired and wireless policies allows the SRs to join the rest of the Aerohive Cooperative Control network to provide a seamless, high-quality enterprise-class experience for all connected users.

Key Features and Benefits

Secure Switching with On-Demand Provisioning
The SR2024P platform is a 24-port Gigabit Ethernet access switch with 4 additional 1 Gigabit SFP ports. 24 Ethernet ports support high-power PoE (Power over Ethernet), and the entire device supports the feature-rich capabilities of HiveOS, including RADIUS, 802.1X security, and cloud-based management. In addition, the SR2024P leverages Aerohive HiveOS cooperative control to provide robust switching functionality that is in harmony with the Wi-Fi infrastructure, including unified policy, management, and reporting. By integrating with the Aerohive Cloud Services Platform, the SR2024P can be brought online by simply shipping the equipment to the install site and plugging it in. The SR2024P will automatically find the HiveManager, either in Aerohive's public cloud or on a customer premises, download complete configuration, security, and corporate policies, and instantly provide service for connected devices.

Cloud-Enabled Stacking
The SR2024P supports Aerohive Cooperative Control protocols, allowing it to interoperate with other HiveOS devices and securely share policy information. By using the unified policy configured in HiveManager, it is possible to combine multiple Aerohive SR2024Ps together to provide a seamless experience for connected clients, even if the devices aren't in the same physical location. Devices can be put into groups and managed and monitored as a single group. Manage your entire access infrastructure without need for additional configuration, proprietary cables or protocols, or concern for geography.

Branch Consolidation
The SR2024P combines a power branch router, stateful firewall, and enterprise-class switch offering full-line rate switching along with IPSec VPN, 802.1X, Policy-Based Routing, Cloud Proxy, and 3G/4G WAN diversity. The SR2024P fills the gap between WAN connectivity and enterprise access, and offers administrators the flexibility and ease-of-use required to drastically reduce the time-to-operation and expenses associated with managing large-scale branch deployments.

Infinitely Expandable
The SR series easily combines with Aerohive Access Points and Branch Routers to create scalable and easily-managed enterprise-class solutions. A single unified policy dictates how and when users can connect via Ethernet or wireless – ensuring security regardless of how or where they connect.

Product Specifications

Interfaces
- 28 dedicated Ethernet ports
  - 24x 10/100/1000Mbps RJ45 ports
  - 4x SFP
- 1 Type-A USB2.0 port backward compatible with USB1.1
- 1 Reset button to reset (on press) and load factory default settings (when pressed for more than 5 seconds)
- 1 LEDs button to cycle Link/Speed/Duplex/PoE status
- 1 RJ45 serial console port

Power over Ethernet
- 24 ports 802.3af/802.3at PoE/PoE+ with legacy support
- 30 Watts max per port
- 195 Watts total power budget
- PoE Prioritization and Reporting

Ethernet Switching
- 16,000 MAC addresses
- Jumbo Frames (9600 bytes)
- QoS
- Line-rate switching
- IGMP Snooping
- Storm control
- Rate limiting
- Spanning Tree: STP, RSTP, MSTP

Environmental
- Operating: 0 to +40 degrees C
- Storage: -20 to +70 degrees C
- Humidity: 5% to 95% RH (non-condensing)
- Altitude: 3000m
- Low-Noise: Less than 48dBA at full power
  - Temperature-controlled fan speed

MTBF
- 220,000 hours at 25 degrees C

Power
- 100-240 Volts, 3.5 Amps

Other Features
- Full Trusted Computing Group (TCG) Trusted Platform Module (TPM)

Firewall/VPN
- 50Mbps Firewall
- 20Mbps IPsec VPN

Mounting
- Rack-mountable
- Desktop

Chassis dimensions
- 17.25" W x 1.75" H x 12.25" D (43.82 cm W x 4.45 cm H x 31.12 cm D)

Features & Benefits

Cooperative Control Software
- Supports HiveOS 6.1r2 and later releases
- User identity and device type identification
- Seamlessly integrated into wired/wireless policies configured by Aerohive HiveManager
- Zero-touch provisioning

Flexible Hardware Platform
- 24 ports 802.3at and 802.3af PoE/PoE+
- 195 Watt power budget
- Low-power consumption with 802.3az support (EEE)
- Dedicated SFP uplinks
- USB for 3G/4G WAN connectivity

Secure Routing
- HiveOS Routing with IPsec
- Identity and Policy-Based Routing
- NAT
- Dual WAN support
- Identity-based routing

Access Switching
- Robust QoS with 8 queues per port
- Marking and policing with 802.1p and/or DiffServ
- Priority queuing for Voice
- Cloud-enabled stacking
- Jumbo Frame (9600 byte) support
- Port mirroring for traffic monitoring
- Link Aggregation
- Dual-authentication with 802.1X and MAC auth
- 802.1ab Link Layer Discovery Protocol (LLDP)
- 802.1Q VLAN tagging
- Spanning Tree, including STP, RSTP, and MSTP

Security
- IEEE 802.1X port-based security
- Dual MAC/802.1X per-port authentication
- Multi-auth for Voice/Data

Features		SR2024P	SR2124P	SR2148P
General				
Line-Rate Switching		56Gbps	128Gbps	176Gbps
Latency		<4µs	<4µs	<8µs
Copper Interfaces		24	24	48
Managed PoE Ports		24 PoE+	24 PoE+	48 PoE+
PoE Budget		195 Watts	408 Watts	779 Watts
Uplink Ports		4 x SFP	4 x SFP/SFP+	4 x SFP/SFP+
VLANs		4095	4095	4095
Concurrent Active VLANs		255	255	255
MAC Addresses		16,000	16,000	16,000
Redundant Power		No	External	External
Physical				
Height		1RU	1RU	1RU
Depth		12.3 in	15.4 in	15.4 in
USB		1x USB2.0	1x USB2.0	1x USB2.0
Security and Management				
RADIUS Server/Proxy		Yes	Yes	Yes
AD Integration		Yes	Yes	Yes
PPSK Server		Yes	Yes	Yes
Cloud Proxy		Yes	Yes	Yes
BR Mode				
Recommended Users		1 to 25	N/A	N/A
FW/VPN Mbps		50 Mbps/20 Mbps	N/A	N/A
USB WAN as Primary		Yes	N/A	N/A
Networks		16 VLANs	N/A	N/A
User Profiles		64	N/A	N/A
Voice				
Voice QoS		Yes	Yes	Yes

SKU	Description
Aerohive Switch	
AH-SR-2024P	SR2024P, 28 port Gigabit Ethernet Switch, 24xRJ45, 195W PoE+, 4xSFP
SR Accessories	
AH-ACC-SFP-1G-SX	Gigabit Ethernet SFP module - SX (550m)
AH-ACC-SFP-1G-LX	Gigabit Ethernet SFP module - LX (10km)