StreamPro 5400 802.11ax 3.6Gbps Outdoor WiFi AP

Dual Band | 4x4 MIMO | Efficient Interference Mitigation

OVERVIEW

EION StreamPro 5400 is an 802.11ax 4x4 MIMO dual-band 3.6Gbps data rate Outdoor Wi-Fi Access Point. It provides ultra-high-speed Wi-Fi supporting both downlink and uplink MU-MIMO, Seamless Roaming and OFDMA. StreamPro 5400 is designed for bandwidth hungry streaming and critical business application contingent dense deployments.

The StreamPro 5400 is the best solution for dense deployments as it delivers 4x higher throughput, capacity and increased coverage capabilities over conventional Wi-Fi Access Points due to several factors working in concert. These factors are the 4x4 MIMO, 1024 QAM capability, DFS support advantage, latency down by 75%, OFDMA, increased output power and receiver gain capability. The DL/UL MU-MIMO increases the capacity of the number of concurrent end-users. The StreamPro 5400 supports BSS color bit and dynamic Clear channel assessment of signal detection, offering powerful interference mitigation.

EION StreamPro 5400 can be configured as a standalone access point, or as part of a group of APs managed by EION's E-Link Gateway Controller 1000. StreamPro 5400 supports up to eight different SSIDs per AP (4 in 2.4 Ghz and 4 in 5 GHz).

The StreamPro 5400 base radio is packaged in an IP67 ruggedized enclosure is suitable for all weather conditions. The thick all-metal enclosure provides high EMI immunity for stable operation and secures communications in hostile environments.

PRODUCT FEATURES

- 802.11ax 4x4 MU-MIMO Outdoor Wi-Fi AP
- Dual-band operation in 2.4 GHz & 5 GHz 2.4 to 2.484GHz, 5.150 to 5.850GHz
- 3657 Mbps Data Rate:
  - 2.4 GHz: up to 1182 Mbps
  - 5GHz: up to 2475 Mbps
- Maximum Transmit Power:
  - 2.4 GHz: up to 22dBm
  - 5GHz: up to 22 dBm
- Antenna: External
- RF Connector: 4xN Type Antenna Connector
- OFDM: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024QAM.
- 160 MHz Channel Bandwidth availability
- 1 x 2.5 Gigabit Ethernet LAN/WAN RJ45 Port
- 1 x Reset Button
- Seamless Roaming
- Target Wake-up Time (TWT) Support
- Surge Protection
- High Spectral Efficiency and Robust RF Network Performance
- IP67 Rugged Construction for All Weather Conditions

ORDERING INFORMATION

9160-00-22-50-54	StreamPro 5400 802.11ax 2.4/5 GHz, 4x4 MU-MIMO, Ruggedized Outdoor Wireless AP

RADIO SPECIFICATIONS

Standard	802.11ax/ac/b/g/n 2.4 GHz WiFi Standard: 802.11b/g/n/ax 5 GHz WiFi Standard: 802.11 a/n/ac/ax
Frequency Range	2.4GHz - 2.484GHz & 5.150 – 5.850GHz (Dual-Band in a single enclosure)
Channel Size	20 MHz; 40 MHz (802.11n) and 40 MHz 802.11ax for 2.4 GHz 20 MHz, 40 MHz (802.11n/ac/ax), 80 MHz and 160 MHz (802.11ac/ax) auto switching
Antenna	External; 4xN Type Antenna Connector
Modulation	OFDM: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024QAM
Signaling Rate	3657 Mbps Data Rate (2.4 GHz: up to 1182 Mbps ; 5 GHz: up to 2475 Mbps)
Output Power	2.4 GHz: upto 22dBm; 5GHz: upto 22 dBm
End users	300+
External Reset Button	Yes

NETWORK SPECIFICATIONS

Network Connection	1x 2.5 Gigabit Ethernet 2.5 GbE) LAN/WAN RJ45 Port (Auto MDI-X)
Operation Mode	Gateway, AP
Wireless Security	WPA, WPA2-PSK,TKIP-AES, WPA2-EAP, 802.1x
MAC Filtering	Yes
Concurrent users	Up to 64 users per band
VLAN Settings	Yes
SSID	Multiple SSID Support: 2.4 GHz – 4; 5 GHz – 4. Supports SSID hidden.
Protocols	IPv4
Seamless Roaming	Yes. 802.11kvr standard
Enhanced Control	• WiFi time ON/OFF Support to save energy • Client isolation support to improve wireless stability • Support RF Power adjustment based on the environment
Device Management	• HTML Web-GUI, E-Link Gateway Controller management, and remote management • Firmware Upgrade • Supports Reset to Factory Default • Back-up configuration • Restore configuration • Supports Reboot and Scheduled reboot • System Log

PHYSICAL, ELECTRICAL & ENVIRONMENTAL

Power Consumption	Typ. < 35 Watts
PoE	48V IEEE 802.3at+
Size	295mm x 231mm x 80mm
Weight	2.1 Kg
Enclosure	IP67; Rugged Metal
Operating Temperature	-20°C to 70°C
Humidity	5% to 95% (non-condensing)