STREAM PRO 802.11ax 8x8 MU-MIMO AP

Dual Band up to 7.3 Gbps Data Rate

10GbE LAN; Fiber Port with 1024 QAM

OVERVIEW

EION STREAM PRO is a dual-band 2.4/5GHz 802.11ax/ac/n 2x(4x4) or 8X8 MU-MIMO 1024 QAM Outdoor Wi-Fi Access Point that provides ultra-high-speed Wi-Fi coverage at data rates up to 7.3 Gbps. Stream PRO is designed for bandwidth hungry streaming and critical business application contingent dense deployments with wide area coverage.

The Stream PRO 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 2x(4x4) MU-MIMO, 1024 QAM capability, DFS support advantage, latency down by 75%, OFDMA, increased output power and receiver gain capability.

For connection into the network the 1 x 10Gigabit Ethernet (10GbE) LAN/WAN RJ45 Port or SFP Fiber port on the Stream PRO can connect to a wired backbone.

EION Stream PRO can be configured as a standalone access point, or as part of a group of APs managed by EION's Network Controller. With up to eight different SSIDs per AP, Stream PRO products can form a powerful 3G/4G offload solution for service providers and enterprises.

The Stream PRO base radio is packaged in an IP67 ruggedized enclosure is suitable for all weather conditions. The specialized design of the finned enclosure allows for stable operation in high heat environments while the integrated vent plug protects electronics in high humidity conditions. The thick all-metal enclosure provides high EMI immunity for stable operation and secures communications in hostile environments.

PRODUCT FEATURES

- 802.11ax 2x(4x4) MU-MIMO Outdoor Wi-Fi AP
- Dual-band operation in 2.4 GHz & 5 GHz 2.412 to 2.472GHz, 5.150 to 5.825GHz
- 2.4 GHz: up to 1147 Mbps data rate
- 5GHz: up to 4804 Mbps data rate plus more
- Max 23dBm per chain or 29 dBm (2 Chain)
- OFDM: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024QAM
- Supports Dynamic Frequency Selection (DFS)
- 1x 10Gigabit Ethernet LAN/WAN RJ45 Port
- 1x SFP+ Port
- Surge Protection
- NLOS Urban Coverage with OFDM Technology
- SNMPv3 and Enterprise MIB for Advanced Network Management
- High Spectral Efficiency and Robust RF Network Performance

ORDERING INFORMATION

9160-00-22-50-20	Stream PRO 802.11ax 2.4/5 GHz, 8x8 MU-MIMO, Ruggedized Wireless AP

EION WIRELESS

RADIO SPECIFICATIONS

Technology	IEEE 802.11ax MU-MIMO
Frequency Range	2.412 to 2.472GHz & 5.150 to 5.825GHz (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
Modulation	OFDM: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024QAM
Signaling Rate	5GHz: up to 4804 Mbps data rate; 2.4 GHz: up to 1147 Mbps data rate + addition options for up to total of 7.3 Gbps
Output Power	2.4 GHz: max 23 dBm per chain or 29 dBm per 2 Chain 5 GHz: max 20 dBm per chain or 26 dBm per 2 Chain
MU-MIMO	4x4 2.4GHz MU-MIMO and 2x(4x4) or 8x8 5GHz MU-MIMO
Duplexing Format	Dynamic Time Division Duplex (TDD), Half-Duplex
Data Rate Selection	Dynamic Adaptive Modulation per Link

NETWORK SPECIFICATIONS

Network Connection	1x 10Gigabit Ethernet (10GbE) LAN/WAN RJ45 Port (Auto MDI-X)
SFP	1x SFP+ Port
Operational Mode	Transparent Bridging (per OSI Layer2), Multicast
Traffic Management	Advanced QoS per user (Hotspot Mode), Standard WMM
MAC Filtering and Firewall	Filtering through Standard MAC address, Firewalls - Zones
VLAN	Data Tagging/Un-tagging, 802.1q transparency, VLAN Management; SSID to VLAN Mapping
NAT	1:N NAT configurable through CPE GUI
DHCP	DHCP Client , DHCP server for LAN devices when in NAT mode, PPPoE, L2TP
IPv6	IPv6 pass through in bridge mode
Routes	Add static Routes
Operation Mode	Standalone, Hotspot, EION AP Controller
Enhanced Control	- Hotspot and Guest Portal Support - Powerful Network Diagnostic Utilities - Real-time Network Load Graphs

MANAGEMENT

Management Access	Over the Air & Wired over prioritized ports
Remote Monitoring	HTML Web-GUI, SNMP v3c (Set, Get and Traps with proprietary MIB) MIB files are available on request
Installation Management	Wireless Link Monitor and Diagnostic Tool; • Provides noise and RSSI signal levels as well as other statistical information • Real-time view of available over the air bandwidth • Real-Time Link Quality Metrics • Built-in Spectrum Analyzer
Backup Configuration	Save Radio Configuration to local PC
Software Upgrade	Over the Air or local, Web-based upgrade
Services	Auto Reboot, Ping Watchdog

PHYSICAL, ELECTRICAL & ENVIRONMENTAL

Power Consumption	Typ. < 30 Watts
Power Supply	100-240V, 50/60 Hz AC; UL/CSA approved 48 Volt POE system; DC power options available.