StarAccess AC 2200

867 Mbps 2 x 2 MIMO AC Outdoor Wi-Fi Access Point with Mesh Capabilities

OVERVIEW

StarAccess is a dual-band 2.4/5GHz 802.11ac/abgn WiFi Access Point with Mesh capabilities that provides outdoor WiFi coverage at signaling rates up to 867 Mps. StarAccess 2200 is designed for wide area WiFi coverage.

The StarAccess AC 2200 has significantly higher capacity and increased coverage capabilities over conventional Wi-Fi Access Points due to a number factors working in concert. These factors are the MIMO diversity advantage; increased output power and sensitive receive capability.

For connection into the network the two Gigabit Ethernet interface on the StarAccess AC 2200 can connect to a wired backbone.

EION StarAccess AC 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, StarAccess AC products can form a powerful 3G/4G offload solution for service providers and enterprises.

The StarAccess AC 2200 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

- Outdoor Wi-Fi AP supports dual-band operation in 2.4 GHz & 5.8 GHz
- 🔰 Mesh Capability
 - 2 x 2 MIMO Technology, up to 867 Mbps
 - IEEE 802.11ac compliant and Backward compatible with 802.11a/b/g/n
 - Supports Spatial Multiplexing, Cyclic-Delay Diversity (CDD), Low-Density Parity Check (LDPC) Codes, Maximal Ratio Combining (MRC), Space Time Block Code (STBC)
 - Supports IEEE 802.11d, e, h, l, k, r, v time stamp, and w standards
 - Supports Dynamic Frequency Selection (DFS)
 - 80, 40 & 20 MHz Channel Sizes
 - NLOS Urban Coverage with OFDM Technology
 - User Friendly Web-Based GUI
 - SNMPv3 and Enterprise MIB for Advanced Network Management
 - High Spectral Efficiency and Robust RF
 Network Performance
 - Rugged Construction for All Weather Conditions
 - Built-in ESD Protection with ESD/EMP Immunity, Power Surge POE Protection.

ORDERING INFORMATION

9160-00-22-00	StarAccess AC 2.4/5.8 GHz, 2x2 MIMO, Ruggedized, Extended Range with 4 x N Type Connectors
9160-00-22-10	StarAccess AC 2.4/5.8 GHz, 2x2 MIMO, Ruggedized, with OMNI Antenna Pack

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RADIO SPECIFICATION

RADIO SPECIFICATIC								
Topology	Standard Wireless LAN Topology (Multiple Modes Supported); Mesh Cloud							
Frequency	2.4 GHz and 5.8 GHz (Dual-Band in a single enclosure)							
Channel Size	20 MHz ; 40 MHz ; 80 MHz (5GHz Only)							
Modulation	OFDM : BPSk	OFDM : BPSK, QPSK, 16-QAM 64-QAM and 256-QAM						
Signaling Rate	Up to 867 Mbps							
RF Connectors	4 x N-type fei	4 x N-type female antenna connector						
Output Power	5GHz Up to + 27 dBm (aggregated 30dBm), 2.4 GHz Up to + 23 dBm (aggregated 26 dBm), configurable in 1dB steps							
	5 GHz				2	2.4 GHz		
	Modulation	20 MHz	40 MHz	80 MHz	Modulation	20 MHz	40 MHz	
Receiver Sensitivity	BPSK	-94 dBm	-93 dBm	-89 dBm	BPSK	-94 dBm	-93 dBm	
(BER = 10 ⁻⁶) +/- 2dB	16-QAM	-86 dBm	-83 dBm	-78 dBm	16-QAM	-84 dBm	-82 dBm	
	64-QAM	-71 dBm	-74 dBm	-71 dBm	64-QAM	-75 dBm	-72 dBm	
	256-QAM	N/A	-71 dBm	-68 dBm	256-QAM	NA	NA	
Duplexing Format	Dynamic Time Division Duplex (TDD), Half-Duplex							
Medium Access Control	IEEE 802.11ac / abgn							
Data Rate Selection	Dynamic Adaptive Modulation per Link							

NETWORK SPECIFICATIONS

Network Connection	2 x Gigabit Ethernet ports ; Auto MDI-X RJ45 10/100/1000 Mbps Ethernet
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/Untagging, 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

SECURITY

Management Access	Username and Password Compatible with all modern web browsers and Windows 7+ OS
	WEP (64, 128, 154), WPA1 (TKIP), WPA2 (CCMP - AES 128, CBC-MAC for headers).



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				
	Wireless Link Monitor and Diagnostic Tool;				
Installation	 Provides noise and RSSI signal levels as well as other statistical information 				
Management	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. < 10 Watts
Power Supply	100-240V, 50/60 Hz AC; UL/CSA approved 48 Volt POE system; DC power options available. The included power supply includes one standard Gigabit Ethernet port for connection to LAN or local PC, and one PoE port for connection to the TeraLink equipment. Power supply is 10/100/1000 BaseT IEEE802.3af/at complaint with data rates up to 1 Gbps full duplex on both ports
Temperature Range	Operating: -20° C to +70° C Storage: -40° C to +90° C
Relative Humidity	Operating: 0% to 100% (condensing); Storage: Max. 90% (non-condensing)
Mounting Bracket	Pole mounting hardware included
Enclosure	Single Unit, Die Cast Metal NEMA 4x; IP67, Finned for heat dissipation
Weight	2.2 kg (External Connectors) 3.1 kg (With Antenna Pack)
Dimensions	229 mm × 191 mm × 76 mm
Lightning Protection	Integrated, Telcordia GR-1089 compliant (Meets IEC 61000-4-2/ 4-4)

STANDARDS COMPLIANCE

Weatherproofing	IP67 when properly installed
Materials Compliance	RoHS/WEEE
Certification	CE, FCC & IC Modular Approvals

BOX CONTENTS

	 StarAccess AC 2 x 2 MIMO Wireless Radio (Antenna Kit – if selected)
Each Box Contains	48V PoE Injector
the following items	Pole mounting bracket
	Quick Start Guide