

StarAccess AC 2 x 2 Indoor

867 Gbps 2 x 2 MU-MIMO Wave-2 AC Dual Band Indoor Wi-Fi Access Point

OVERVIEW

StarAccess AC Indoor offers 2 x 2 MU-MIMO latest 802.11ac/a/b/g/n Wave-2 technology with smart antenna to provide excellent coverage and capacity. It is concurrent dualband 2.4/5GHz WiFi Access Point that provides best in class Indoor WiFi coverage at signaling rates up to 867 Mbps on 5 GHz and 300 Mbps on 2.4GHz. StarAccess Indoor is designed for medium to large areas requiring Indoor WiFi coverage.

The StarAccess AC Indoor 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 latest MU technology, Smart Antenna which provides minimum to no null coverage spots (see details in antenna section) MIMO diversity advantage; good output power and enhanced sensitive receive capability.

For connection into the network the two Gigabit Ethernet interface on the StarAccess AC Indoor 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.

PRODUCT FEATURES

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- Indoor MU-MIMO 802.11ac/a/b/g/n Wi-Fi AP supports dual-band operation in 2.4 GHz & 5.8 GHz (Wave-2)
- 2 x 2 MIMO Technology, up to 867 Mbps on 5GHz and 300 Mbps on 2.4GHz
- 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)
- Real Time Network Load Graphs
- 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
- Watchdog Timer
- User Friendly Web-Based GUI
- SNMPv3 and Enterprise MIB for Advanced Network Management
- High Spectral Efficiency and Robust RF
 Network Performance
- Built-in ESD Protection with ESD/EMP Immunity, Power Surge POE Protection.

ORDERING INFORMATION

9170-00-33-20	StarAccess MU-MIMO AC Dual Band, OFDM 3 x 3 MIMO, Smart Integrated Antenna, Dual Gigabit
9170-00-22-30	StarAccess MU-MIMO AC Dual Band, OFDM 2 x 2 MIMO, Smart Integrated Antenna, Dual Gigabit



RADIO SPECIFICATIO	<u>N</u>								
Topology	Standard Wireless LAN Topology (Multiple Modes Supported)								
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, QPSK, 16-QAM 64-QAM and 256-QAM								
Signaling Rate	Up to 1.3 Gbps on 5 GHz and 450 Mbps for 2.4 GHz								
Integrated Antenna	4dBi@2.4GHz pyramidal omni smart antenna, 5dBi @ 5GHz pyramidal omni smart antenna								
Output Power	5GHz Up to + 18 dBm (aggregated 21 dBm), 2.4 GHz Up to + 23 dBm (aggregated 26 dBm), configurable in 1dB step								
	5 GHz					2	2.4 GHz		
	Modulation	20 MHz	40 MHz	80 MHz		Modulation	20 MHz	40 MHz	
Receiver Sensitivity	BPSK	-94 dBm	-91 dBm	-90 dBm		BPSK	-94 dBm	-93 dBm	
(BER = 10 ⁻⁶) +/- 2dB	16-QAM	-82 dBm	-79 dBm	-76 dBm		16-QAM	-84 dBm	-82 dBm	
	64-QAM	-70 dBm	-67 dBm	-64 dBm		64-QAM	-75 dBm	-72 dBm	
	256-QAM	NA	-65 dBm	-61 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								

RADIO SPECIFICATION

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/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		
lpv6	Ipv6 pass through in bridge mode		
Routes	Add static Routes		
Operation Mode	Standalone, Hotspot, EION CNMS (Centralized Network Management System)		
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
Encryption	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			
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. < 14 Watts		
Power Supply	Power Supply 100-240V, 50/60 Hz AC; UL/CSA approved 48 Volt POE system; DC power Jack (12V to 24V). The included power supply includes one standard 24V DC adaptor.		
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	Supports Wall-Mounted or Ceiling Mounted		
Weight Carton Box 8 Units – 6 Kg			
Dimensions	Carton Box 8 Units – 422 x 410 x 240 mm		
Lightning Protection	htning Protection Integrated, Telcordia GR-1089 compliant (Meets IEC 61000-4-2/ 4-4)		

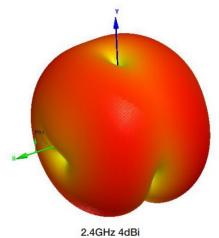
STANDARDS COMPLIANCE

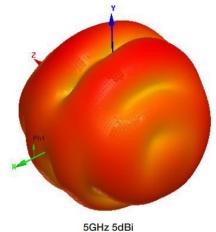
Materials Compliance	RoHS/WEEE
Certification	CE, FCC & IC modular approvals

BOX CONTENTS

Each Box Contains the following items	•	StarAccess AC Indoor 3 x 3 MU-MIMO Access Point
	•	24V PoE Injector
	•	Quick Start Guide

INTEGRATED ANTENNA PATTERNS





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