

# StarAccess AC 3 x 3 Indoor

1.3 Gbps 3 x 3 MU-MIMO Wave-2 AC Dual  
Band Indoor Wi-Fi Access Point



## OVERVIEW

StarAccess AC Indoor offers 3x3 MU-MIMO latest 802.11ac/a/b/g/n Wave-2 technology with smart antenna to provide excellent coverage and capacity. It is concurrent dual-band 2.4/5GHz WiFi Access Point that provides best in class Indoor WiFi coverage at signaling rates up to 1.3 Gbps and 450 Mbps on 2.4 GHz. 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 of 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.

## ORDERING INFORMATION

<b>9170-00-33-20</b>	StarAccess MU-MIMO AC Dual Band, OFDM 3 x 3 MIMO, Smart Integrated Antenna, Dual Gigabit
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## PRODUCT FEATURES

- 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)
- Beamforming
- 3 x 3 MIMO Technology, up to 1.3 Gbps and 450 Mbps on 2.4 GHz
- 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, i, 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.

## RADIO SPECIFICATION

<b>Topology</b>	Standard Wireless LAN Topology (Multiple Modes Supported)						
<b>Frequency</b>	2.4 GHz and 5.8 GHz (Dual-Band in a single enclosure)						
<b>Channel Size</b>	20 MHz ; 40 MHz ; 80 MHz (5GHz Only)						
<b>Modulation</b>	OFDM : BPSK, QPSK, 16-QAM 64-QAM and 256-QAM						
<b>Signaling Rate</b>	Up to 1.3 Gbps on 5 GHz and 450 Mbps for 2.4 GHz						
<b>Integrated Antenna</b>	4dBi@2.4GHz pyramidal omni smart antenna, 5dBi @ 5GHz pyramidal omni smart antenna						
<b>Output Power</b>	5GHz Up to + 21 dBm (aggregated 26 dBm), 2.4 GHz Up to + 23 dBm (aggregated 28 dBm), configurable in 1dB step						
<b>Receiver Sensitivity</b> (BER = 10 <sup>-6</sup> ) +/- 2dB	<b>5 GHz</b>				<b>2.4 GHz</b>		
	<b>Modulation</b>	<b>20 MHz</b>	<b>40 MHz</b>	<b>80 MHz</b>	<b>Modulation</b>	<b>20 MHz</b>	<b>40 MHz</b>
	BPSK	-94 dBm	-91 dBm	-90 dBm	BPSK	-94 dBm	-93 dBm
	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
<b>Duplexing Format</b>	Dynamic Time Division Duplex (TDD), Half-Duplex						
<b>Medium Access Control</b>	IEEE 802.11ac/abgn						
<b>Data Rate Selection</b>	Dynamic Adaptive Modulation per Link						

## NETWORK SPECIFICATIONS

<b>Network Connection</b>	2 x Gigabit Ethernet ports ; Auto MDI-X RJ45 10/100/1000 Mbps Ethernet
<b>Operational Mode</b>	Transparent Bridging (per OSI Layer2), Multicast
<b>Traffic Management</b>	Advanced QoS per user (Hotspot Mode), Standard WMM
<b>MAC Filtering and Firewall</b>	Filtering through Standard MAC address, Firewalls – Zones
<b>VLAN</b>	Data Tagging/Un-tagging, 802.1q transparency, VLAN Management; SSID to VLAN Mapping
<b>NAT</b>	1:N NAT configurable through CPE GUI
<b>DHCP</b>	DHCP Client , DHCP server for LAN devices when in NAT mode, PPPoE, L2TP
<b>Ipv6</b>	Ipv6 pass through in bridge mode
<b>Routes</b>	Add static Routes
<b>Operation Mode</b>	Standalone, Hotspot, EION CNMS (Centralized Network Management System)
<b>Enhanced Control</b>	<ul style="list-style-type: none"> <li>- Hotspot and Guest Portal Support</li> <li>- Powerful Network Diagnostic Utilities</li> <li>- Real-time Network Load Graphs</li> </ul>

## SECURITY

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

## MANAGEMENT

<b>Management Access</b>	Over the Air & Wired over prioritized ports
<b>Remote Monitoring</b>	HTML Web-GUI, SNMP v3c (Set, Get and Traps with proprietary MIB) MIB files are available on request
<b>Installation Management</b>	Wireless Link Monitor and Diagnostic Tool; <ul style="list-style-type: none"> <li>Provides noise and RSSI signal levels as well as other statistical information</li> <li>Real-time view of available over the air bandwidth</li> <li>Real-Time Link Quality Metrics</li> <li>Built-in Spectrum Analyzer</li> </ul>
<b>Backup Configuration</b>	Save Radio Configuration to local PC
<b>Software Upgrade</b>	Over the Air or local, Web-based upgrade
<b>Services</b>	Auto Reboot, Ping Watchdog

## PHYSICAL, ELECTRICAL & ENVIRONMENTAL

<b>Power Consumption</b>	Typ. < 14 Watts
<b>Power Supply</b>	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.
<b>Temperature Range</b>	Operating: -20° C to +70° C Storage: -40° C to +90° C
<b>Relative Humidity</b>	Operating: 0% to 100% (condensing); Storage: Max. 90% (non-condensing)
<b>Mounting Bracket</b>	Supports Wall-Mounted or Ceiling Mounted
<b>Weight</b>	Carton Box 8 Units – 6 Kg
<b>Dimensions</b>	Carton Box 8 Units – 422 x 410 x 240 mm
<b>Lightning Protection</b>	Integrated, Telcordia GR-1089 compliant (Meets IEC 61000-4-2/ 4-4)

## STANDARDS COMPLIANCE

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

## BOX CONTENTS

<b>Each Box Contains the following items</b>	<ul style="list-style-type: none"> <li>StarAccess AC Indoor 3 x 3 MU-MIMO Access Point</li> <li>24V PoE Injector</li> <li>Quick Start Guide</li> </ul>
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## INTEGRATED ANTENNA PATTERNS

