

# StarAccess 200

## Dual Band 2.4/5.8 GHz Indoor/Outdoor WiFi Access Point



### PRODUCT FEATURES

- Outdoor AP supports dual-band operation in 2.4 GHz & 5.8 GHz
- Multiple form factors allow Ceiling and Wall mounting options
- Support for IEEE802.11a/b/g/n client devices
- Up to 300 Mbps data rate per radio
- Operates as standalone AP, or as part of a managed Campus Network or Offload Solution
- 2 x 2 Spatial Diversity MIMO (Multiple-In/ Multiple Out) antenna with high receive sensitivity
- GigE interface for connection to StarPlus for flexible backhaul options
- Variety of antenna options: SISO/MIMO in 60°, 90°, 120° and 360° (Omni)
- Total 8 SSIDs - Enable operators to create tiered services to different user or traffic types
- Remote software upgradable

### OVERVIEW

EION StarAccess 200 is a dual-band 2.4/5GHz 802.11n WiFi Access Point that provides WiFi coverage at signalling rates up to 300 Mbps. StarAccess 200 is designed to serve densely populated locations such as Arenas, Shopping Malls, Hotels, Schools, Business Offices, HealthCare Facilities and Transportation Hubs, or anywhere large numbers of people are congregating with WiFi enabled devices.

StarAccess can be configured as a standalone access point, or as part of a group of APs managed by a network controller. With up to eight different SSIDs per AP, StarAccess products can form a powerful 3G/4G offload solution for service providers and enterprises.

Available in the following form factors;

- **StarAccess 200 CM:** Ceiling Mount version with integrated 2.4/5.8 GHz 4 dBi Spatial Diversity MIMO Antenna. Mounts directly to the ceiling to provide 360° indoor coverage.
- **StarAccess 200 WM:** Wall Mount version with integrated dual-band 120° 8dBi sector antenna. Suitable for providing indoor coverage in large or irregularly shaped rooms such as auditoriums.
- **StarAccess 200 OD:** Outdoor version enclosed in a lightweight fully weatherproof enclosure. Suitable for outdoor deployment on buildings or parking garages. N-type antenna port supports a variety of antenna packages.
- **StarAccess 200 RG:** Ruggedized version packaged in our fully weatherproof metal enclosure. Suitable for outdoor deployment without a shelter structure. N-type antenna port supports a variety of antenna packages.



### ORDERING INFORMATION

Product Name	Product Description	Product Code
StarAccess 200 CM	Dual Band 2.4/5 GHz Indoor WiFi Access Point, Ceiling Mount integrated 4dBi Omni	9150-0013
StarAccess 200 WM	Dual Band 2.4/5 GHz Indoor WiFi Access Point, Wall Mount integrated 8dBi Sector	9150-0012
StarAccess 200 OD	Dual Band 2.4/5 GHz Indoor/Outdoor WiFi Access Point 4xNtype	9150-0011
StarAccess 200 RG	Dual Band 2.4/5 GHz Ruggedized Outdoor WiFi Access Point 4xNtype	9150-0010
StarAccess Antenna Pack	Includes two 2.4 GHz and two 5.8GHz, 8dBi Omni Antennas, N-type (M)	1200-9150

## StarAccess 200

Radio								
Topology	Standard Wireless LAN Topology (Multiple Modes Supported)							
Antennas	2 x 2 MIMO per radio, see antenna options below							
Frequency	802.11, 2.4 GHz and 5.8 GHz (Dual-Band in a single enclosure)							
Channel Size	Normal: 20 MHz; Turbo: 40 MHz							
Modulation	Standard 802.11 rates; MCS 0 to 15 (6.5 to 300 Mbps); BPSK, QPSK, 16-QAM and 64-QAM							
Output Power*	up to +26 dBm configurable in 1dB steps							
Receiver Sensitivity (BER = 10 <sup>-6</sup> ) +/- 2dB	<b>Modulation</b>	<b>20 MHz</b>	<b>40 MHz</b>		<b>Modulation</b>	<b>20 MHz</b>	<b>40 MHz</b>	
	MCS0- BPSK	-95 dBm	-92 dBm		MCS8- BPSK	-95 dBm	-92 dBm	
	MCS1 - QPSK1/2	-93 dBm	-90 dBm		MCS9 - QPSK1/2	-93 dBm	-90 dBm	
	MCS2 - QPSK3/4	-90 dBm	-87 dBm		MCS10 - QPSK3/4	-90 dBm	-87 dBm	
	MCS3 - 16-QAM1/2	-89 dBm	-84 dBm		MCS11 - 16-QAM1/2	-89 dBm	-84 dBm	
	MCS4 - 16-QAM2/3	-85 dBm	-81 dBm		MCS12 - 16-QAM2/3	-85 dBm	-81 dBm	
	MCS5 - 64-QAM2/3	-81 dBm	-77 dBm		MCS13 - 64-QAM2/3	-81 dBm	-77 dBm	
	MCS6 - 64-QAM3/4	-79 dBm	-76 dBm		MCS14 - 64-QAM3/4	-79 dBm	-76 dBm	
MCS7 - 64-QAM5/6	-75 dBm	-74 dBm		MCS15 - 64-QAM5/6	-75 dBm	-74 dBm		
Duplexing Format	TDD, Half-Duplex							
Spectral Efficiency Per Channel	3.75 bits per Hertz							
Network Support								
Medium Access Control	Standard 802.11 a/b/g/n							
Network Connection	Auto MDI-X RJ45 10/100/1000Mbps Ethernet, Auto negotiation							
Traffic Management	Standard WMM							
MAC Filtering	Filtering through Standard MAC address							
DHCP	DHCP server in AP controlling wireless side, NAT							
IPv6	IPv6 pass through in bridge mode							
QoS	IP and Port based prioritization							
Wireless Networking								
Output Power Management	Manual							
SSID	8 total - 4 for 2.4 GHz and 4 for 5.8 GHz							
Security								
Management Access	Username and Password							
Encryption	WEP Open System, WEP Shared Key, WPA-PSK, WPA2-PSK, WPA-PSK/WPA2-PSK Mixed Mode							
Management								
Remote Management	Web-GUI, SNMPv2							
Management Access	Over the Air & Wired							
Backup Configuration	Download backup configuration files							
Software Upgrade	via Web-GUI							
Physical, Electrical & Environmental								
	StarAccess 200 CM	StarAccess 200 WM	StarAccess 200 OD	StarAccess 200 RG				
Mounting Bracket	Indoor Ceiling Mount	Indoor Wall Mount	L-Bracket & U-bolt for outdoor wall or pole mount	2-Axis ruggedized bracket for pole or wall mount				
Antenna	Integrated 2.4/5.8GHz 4 dBi Spatial Diversity Omni-Directional Antenna	Integrated 2.4/5.8GHz 8dBi 120° Sector Antenna	4x N-type (F) antenna ports. Optional 8dBi Omni Antenna Pack.	4x N-type (F) antenna ports. Optional 8dBi Omni Antenna Pack.				
Enclosure	White All-Outdoor ABS/PC, Flame Retardant, UV resistant, IP67	White All-Outdoor ABS/PC, Flame Retardant, UV resistant, IP67	White All-Outdoor ABS/PC, Flame Retardant, UV resistant, IP67	Die Cast Metal Ruggedized NEMA 4x; IP67				
Relative Humidity	5% to 95% non-condensing	5% to 95% non-condensing	5% to 95% non-condensing	0 to 100%, condensing				
Operating Temperature	-25° C to +70° C	-25° C to +70° C	-25° C to +70° C	-30° C to +70° C				
Dimensions	257mm x 257mm x 86mm	257mm x 257mm x 86mm	Radio: 257mm x 257mm x 86mm with Antenna Pack: 772mm x 257mm x 86mm	Radio: 230mm x 230mm x 65mm with Antenna Pack: 745mm x 230mm x 65mm				
Weight	1.7 kg	1.8 kg	Radio: 1.5 kg with Antenna Pack:	Radio: 2.0 kg with Antenna Pack: 3.2 kg				
Input Voltage	100-240V, 50/60 Hz AC with 48V PoE 802.3af	100-240V, 50/60 Hz AC with 48V PoE 802.3af	100-240V, 50/60 Hz AC with 48V PoE 802.3af	100-240V, 50/60 Hz AC with 48V PoE 802.3af				
Power Consumption	< 16W	< 16W	< 16W	< 16W				
Lightning Protection	Built-in ESD	Built-in ESD	Built-in ESD	Built-in ESD				
Environmental	RoHS and WEEE	RoHS and WEEE	RoHS and WEEE	RoHS and WEEE				

\*Available transmit power (Actual transmit power may vary based on local regulations and selected modulation)