

#### Altai A2c Indoor Dual-band 2x2 802.11ac AP

The Altai A2c Indoor Dual-band 2x2 AP is specifically designed to deliver unparalleled Wi-Fi experience and highly reliable and consistent services to mobile users at the market's most affordable price point.

Altai A2c offers several powerful features to meet the challenges of today's Wi-Fi networks:

- Altai's interference mitigation algorithm offers optimal capacity and interference rejection
- Altai AirFi enhances an AP's capacity by optimizing each client's throughput based on its signal strength and traffic
- Altai's smart band steering and load balancing technologies allow Altai A2c to effectively utilize both 2.4GHz and 5GHz spectrums for supporting a large number of mobile users running bandwidth hungry applications
- Altai A2c supports a wide range of applications such as social login, hotspot authentication, guest access, firewall, and wireless intrusion detection that allow either enterprises to set up their private networks easily, or WISPs to quickly deploy and monetize hotspot services

#### Super Dual-band Coverage

Max. LOS Access	350 m (2.4 GHz) 250 m (5 GHz)	
Max. Data Rate	300 + 867 Mbps	



#### **Applications**

- In conjunction with AltaiCare and its powerful access management features, Altai A2c offers the most cost effective indoor Wi-Fi hotspot solution for MNOs and WISPs
- The low cost Altai A2c, together with the controller-less, cloud-based AltaiCare and its pay-as-you-grow subscription model, are ideally suited for enterprises and SMEs that want enterprise features such as security and price points performance but not the associated with controller-based solutions
- The Altai A2c offers a low cost solution that delivers best-in-class dual-band Wi-Fi performance and reliability for schools, hotels, and retail stores

# Key Features and Benefits

- Best value in price/performance Dual band Best-in-class 802.11ac with extended coverage at the market's most affordable price point
- Extended coverage requires fewer APs Up to AirFi optimizes capacity AirFi enhances Altai 50% larger coverage minimizes the number of APs required for any Wi-Fi network
- Low profile housing design Sleek, low profile design allows it to blend into any surrounding environment
- Dual-band with 802.11ac 802.11ac delivers total data rate of more than 1 Gbps. This, together with Altai's smart band steering and load balancing technologies, allows a Wi-Fi network to support a large number of mobile users running high bandwidth apps

- performance Altai's smart interference mitigation algorithm, offers optimal capacity and interference rejection
- client's A2c's capacity by optimizing throughput based on its signal strength and traffic
- Flexible architecture Standalone, controllerbased, or cloud-based management with AltaiCare
- Ease of deployment Zero configuration of AltaiCare allows a non-technical person to simply unpack and plug Altai A2c to Wi-Fi network. Furthermore, support for standard 802.3at PoE allows enterprises to use existing PoE switches



# Altai A2c Indoor Dual-band 2x2 802.11ac AP

Ceiling Mount, Built-in 2.4 GHz and 5 GHz Omni Antennas

### Wireless Interface

Wireless Int					
	n (2x2:2) Ro		C / Dridere /	Deve exter	
<ul> <li>Operating</li> </ul>	Mode			Repeater	
Standard			IEEE 802.11b/g/n 2.400 – 2.484 GHz (Ch 1-13)		
Operating				2 (Ch 1-13)	
<ul> <li>Transmit Po</li> </ul>	Jwer		n (Max.) n (HT40 @ N	10204	
			n (HT40 @ <i>l</i> n (HT40 @ <i>l</i>		
	ensitivity (Ty		1 (11140 @ 1	vicorj	
	11 Mbps		1 Mbps	-92 dBm	
802.11a	54 Mbps	-72 dBm	6 Mbps	-88 dBm	
802.11n				-84 dBm	
	ac (2x2:2) l				
• Operating			E/ Bridge/	Repeater	
<ul> <li>Standard</li> </ul>		IEEE 802.11a/n/ac			
<ul> <li>Operating</li> </ul>	Frequency	5.150 – 5.350 GHz			
			5.725 GHz		
			5.850 GHz	-	
<ul> <li>Transmit Po</li> </ul>	ower		n (Max.)	(02201	
			n (VHT80 @		
	ensitivity (Ty		n (VHT80 @	(MC24)	
	54 Mbps		6 Mbps	-90 dBm	
802.11n	HT20	-89 dBm;	HT40	-85 dBm	
	VHT20				
	VHT80	-82 dBm			
For both 2.4					
<ul> <li>32 SSID (M</li> </ul>					
	302.11k*, 802	.11r*, 802.11	v*, 802.11	W*	
<ul> <li>Hotspot 2.0</li> </ul>					
	M Throughpu	t Optimizati	on		
<ul> <li>Band Stee</li> <li>WMM (802)</li> </ul>	-				
Antenna					
2.4 GHz An			mni		
<ul> <li>Built-in Ant</li> </ul>		4 dBi Omni			
<ul><li>Frequency</li><li>Polarizatio</li></ul>		2.4 – 2.5 GHz			
<ul><li>Polarization</li><li>Horizontal Beamwidth</li></ul>		2x2 MIMO Diversity Polarized 360° (-3 dB)			
<ul><li>Honzoniai beamwiain</li><li>VSWR</li></ul>			2 (Max.)		
<ul> <li>Impedance</li> </ul>	e	50 Ω			
5 GHz Ante		0012			
<ul> <li>Built-in Ant</li> </ul>		4 dBi O	mni		
<ul> <li>Frequency</li> </ul>		5.150 – 5.875 GHz			
<ul> <li>Polarization</li> </ul>		2x2 MIMO Diversity Polarized			
Horizontal Beamwidth		360° (-3	B dB)		
• VSWR		2 (Max	.)		
<ul> <li>Impedance</li> </ul>	e	50 Ω			
Networking					
			40		
<ul> <li>IPv4/ IPv6 I</li> </ul>	dge) and Go Dual-stack				
• 16 v4/ 16 vo 1 • NAT	DUGI-STUCK				
<ul> <li>DHCP Clie</li> </ul>	nt/Server				
<ul> <li>PPPoE Clie</li> </ul>					
<ul> <li>VPN (IPsec</li> </ul>					
VLAN	,				
	n Control Per	VAP/ Clien	t		
		MP Snoonir			

• Multicast Rate Filter/ IGMP Snooping

# Security

- Authentication Open system, Shared key, WPA/ WPA-PSK, WPA2/ WPA2-PSK, 802.1x (EAP-PEAP/ TLS/ TTLS/ SIM/ AKA)
- Encryption WEP, TKIP, AES
- Inter/ Intra-client Isolation
- MAC-based Access Control (White/ Black List)
- RADIUS
- Active directory
- Firewall\*
- WIPS\*

#### Management

- Cloud or Server-based Management by AltaiCare
- Controller-based Management by Access Controller
- Web User Interface
- Command Line Interface (SSH)
- SNMP v1/ v2c / v3\*
- MIB2/ IF-MIB/ Altai Enterprise MIB
- Syslog
- Auto Channel Selection and TX Power Control
- Spectral Analysis\*
- KPI Monitoring\*
- Client OS Detection\*

#### Physical Specification

<ul> <li>Dimension</li> </ul>	Diameter: 161.54mm
	Height: 41.66mm
<ul> <li>Weight</li> </ul>	0.28 kg
Mounting	Ceiling or Wall-mounted
Network Interface	1 x 10/100/1000 Mbps
	Ethernet Port
Power Supply	
<ul> <li>Power Supply</li> </ul>	802.3at PoE PD or 56V Passive

Power Consumption
 Power Consumption
 PoE PD
 8 W (Typical)/15 W (Max.)

# nvironmental Specification

Operating Temperature	0 °C to +50 °C			
Storage Temperature	-20 °C to +60 °C			
<ul> <li>Humidity</li> </ul>	90% or Less (Non-condensing)			

#### Certification

FCC\* / CE\* / Others\*

# **Product Ordering Information**

#### **Standard Package**

- A2c Indoor Dual-band 2x2 802.11ac AP (Model No.: A2-2221-000)
- Mounting Accessories
- Quick Start Guide

#### Accessories

- 56V Passive PoE Injector (Optional)
- Contact Us
- Email: sales@altaitechnologies.com

A2c-PB-160803

Will be available in the future.

The transmit power may vary according to country regulations.

Although Altai has attempted to provide accurate information in these materials, Altai assumes no legal liability for the accuracy and completeness of the information. All specifications are subject to change without notice.