

Altai C2s Dual-band 2x2 802.11ac WiFi AP/Bridge

The Altai C2s Dual-band 2x2 WiFi AP/Bridge is specifically designed to offer carrier grade Wi-Fi performance at the market's most affordable price point.

C2s combines Altai several technology breakthroughs to deliver unparalleled Wi-Fi experience and highly reliable and consistent services to mobile users:

- Superior RF and filter design, in conjunction with Altai's interference mitigation algorithm, offers optimal capacity and interference rejection
- Much higher TX power over competitions at the highest data rates allows up to 50% more coverage and capacity
- Altai's smart band steering and load balancing technologies allow Altai C2s to effectively utilize both 2.4GHz and 5GHz spectrums for supporting a large number of mobile users running bandwidth hungry applications

Super Dual-band Coverage

Max. LOS Access	600 m (2.4 GHz) 700 m (5 GHz)
Max. LOS CPE	3 km to A8-Ein (ac) (2.4 GHz) 2 km to A3-Ei (5 GHz)
Max. LOS Bridge	7 km (5 GHz)
Max. Data Rate	300 + 867 Mbps

Key Features and Benefits

- 802.11ac with extended coverage at the market's most affordable price point
- Extended coverage requires fewer APs Up to 50% larger coverage minimizes the number of APs required for any Wi-Fi network
- 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
- Best-in-class performance Superior RF and filter design, in conjunction with Altai's smart interference mitigation algorithm, offers optimal capacity and interference rejection



Applications

- In conjunction with AltaiCare and its powerful user access management, Altai C2s offers the most cost effective indoor or outdoor Wi-Fi hotspot solution for MNOs and WISPs
- The low cost Altai C2s, 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 performance but not the price points associated with controller-based solutions
- With 5GHz as backhaul and 2.4GHz as access, Altai C2s is the perfect Wi-Fi CPE for WISPs. Combined with either A8-Ein (ac) or A3-Ei, the solution delivers Wi-Fi coverage up to 3km
- The Altai C2s offers a low cost solution for high capacity point-to-point and point-tomultipoint infrastructure backhaul for MNOs and WISPs, smart cities, and video surveillance applications
- Best value in price/performance Dual band Superior antenna design Integrated high gain diversity polarized antenna design increases the effectiveness of MIMO for both 802.11n and 802.11ac
 - AirFi optimizes capacity AirFi enhances Altai C2s' capacity by optimizing client's 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 C2s to Wi-Fi network. Furthermore, support for standard 802.3at PoE (via optional adapter) allows enterprises to use existing PoE switches



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802.11n/ac, Built-in 2.4 GHz and 5 GHz Patch Antennas

Wireless Interface

	2:2) Ra					
Operating Mod	е			Repeater		
StandardOperating Frequency		IEEE 802.11b/g/n 2.400 – 2.484 GHz (Ch 1-13)				
Transmit Power		1 (Max.)				
			27 dBm (HT20/40 @ MCS0)			
			n (HT20/40			
Receiver Sensitiv						
		-89dBm	1 Mbps			
	Mbps	-78 dBm	6 Mbps			
802.11n HT2		-91 dBm	HT40	-88 dBm		
02.11a/n/ac (2			E/Bridge	Popoator		
 Operating Mode Standard 		AP/ CPE/ Bridge/ Repeater IEEE 802.11a/n/ac				
 Operating Frequency 		5.150 – 5.350 GHz				
0 1	,		5.725 GH			
			5.850 GH	Z		
Transmit Power			n (Max.)			
				0 @ MCSO)		
Pagaivar Sansitiv	uity (Type		1 (VHI40/8	80 @ MCS9)		
Receiver Sensitiv 802.11a 547		-79 dBm;	6 Mbps	-93 dBm		
802.11n HT2		-93 dBm;		-90 dBm		
802.11ac VH	Г20	-93 dBm;		-90 dBm;		
VHI		-87 dBm				
or both 2.4 and 5						
32 SSID (Max. 16 802.11h*, 802.11			I.v* 0∩0 11	*		
Hotspot 2.0	κ, ουΖ.	111,002.1	10,002.11	vv		
Altai AirFi™ Thro	tuahput	Optimizati	on			
Band Steering		- -				
WMM (802.11e)						
. ,						
.4 GHz Antenno						
.4 GHz Antenno Built-in Antenno		6 dBi P				
.4 GHz Antenna Built-in Antenna Frequency		2.4 – 2.	5 GHz			
.4 GHz Antenna Built-in Antenna Frequency Polarization		2.4 – 2. 2x2 MII	5 GHz MO Diversi	ity Polarized		
A GHz Antenna Built-in Antenna Frequency Polarization Horizontal Beam	nwidth	2.4 – 2. 2x2 MI/ 65° (-3	5 GHz MO Diversi dB)	ity Polarized		
Antenna .4 GHz Antenna Built-in Antenna Frequency Polarization Horizontal Beam Vertical Beamw	nwidth	2.4 – 2. 2x2 MI/ 65° (-3 60° (-3	5 GHz MO Diversi dB) dB)	ity Polarized		
A GHz Antenna Built-in Antenna Frequency Polarization Horizontal Beam Vertical Beamw VSWR	nwidth	2.4 – 2. 2x2 MI/ 65° (-3 60° (-3 2 (Max	5 GHz MO Diversi dB) dB)	ity Polarized		
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- VPN (IPsec)³
- VLAN
- Bandwidth Control Per VAP/ Client
- 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

Dimension	280 x 80 x 27 mm		
Weight	0.4 kg		
Mounting	Pole, Wall or		
_	Window-mounted		
Network Interface	2 x 10/100/1000 Mbps		
	Ethernet Ports		
Power Supply			
Power Supply	24V Passive PoE PD or 802.3at		
	PoE PD via Adapter		

Power Consumption

Environmental Specification

-20 °C to +55 °C -40 °C to +80 °C 5 to 95% (Non-condensing) Up to 200 km/h (124 mph) Outdoor UV Stabilized Plastic IP55 Compliant
II 55 Compilant

6 W (Typical)/12 W (Max.)

Certification

• FCC / CE / Others*

Product Ordering Information

Standard Package

- C2s Dual-band 2x2 802.11ac WiFi AP/Bridge (Model No.: C2-2221-000)
- Cable Ties
 - Quick Start Guide

Accessories

- DC Injector and AC Adapter (UK, US or EU)
- 802.3at to Passive PoE Adapter

Contact Us

Email: sales@altaitechnoloaies.com

*Will be available in the future.

C2S-PB-160722

The coverage or range may vary depending on environmental conditions. 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.