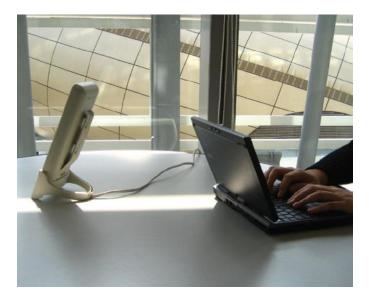


Altai Clan Super WiFi CPE/AP 802.11a/n Bandwidth Control and Remote Management Capable

Altai C1an Super WiFi CPE/AP

The Altai C1an WiFi CPE/AP is designed as an essential component in the Altai Super WiFi system to extend outdoor Wi-Fi coverage into indoor areas for broadband connectivity in 5 GHz band or use as an AP for pico coverage.



The Altai C1an employs patented smart signal processing algorithms and antenna design to increase Wi-Fi signal strength (transmit and receive) by as much as 18 dB in areas covered by an A8n Super WiFi Base Station or A2 WiFi Access Point. It can be installed exactly where the throughput is required to boost up, and it allows the service operator to increase the coverage range of an A8n base station substantially and provides greater flexibility and cost savings to Wi-Fi deployments.

Super Long-Range Coverage

Max. LOS Access	1 km
Max. LOS CPE	4 km to A8-Ein(ac) 3 km to A3-Ei
Max. LOS Bridge	13 km
Max. Data Rate	300 Mbps

Control Traffic Throughput Flexibly

From day one, the C1 an is designed and purpose-built for carriers. Its built-in traffic shaping based bandwidth control mechanism allows the control of uplink and downlink traffic throughput on a per-client or per-VAP basis. A full set of networking and management features are available to meet carriers' requirements.



Altai C1an for Wireless Broadband

The C1an is a key component in wireless broadband access provisioning. It can be installed outdoor by the side of a window, mounted to a wall, at the rooftop of a building or placed at the desktop inside for fixed broadband access provisioning.

Altai C1an for Access Point

The C1an can also be used as a standalone Wi-Fi access point for smaller networks operating at 5 GHz with fast Ethernet backhaul. With its high gain built-in smart antenna, it is an important solution to complement the large coverage and high throughput of an A8n Base Station and A2 Access Point to improve Wi-Fi performance.

Altai C1an for PTP Bridge

The C1an is perfect for use as low-cost point-to-point bridge, in deployment scenarios such as commercial wireless broadband users or high definition surveillance cameras.

As an integral part of our Super WiFi network infrastructure, the Altai C1an differentiates others with:

- Features built-in for carriers including per client/VAP based bandwidth control, remote web-based management and client association status
- ±45° dual slant patch antennas are optimized to match with the Altai A8n/A2 antennas. It provides 3 dB more gain as compared to other V/H polarized CPEs
- High performance antenna with 20 dB front-to-back ratio, which is on average 5 dB better than others in directional transmission without picking up unwanted signal
- One-piece weatherproof chassis compliant to IP55 standard for direct outdoor installation
- 8-level LED for easy alignment in the strongest signal direction
- Increase signal strength for both NLOS and LOS coverage areas
- Improve data transmission rate and throughput utilization of base station



242 x 80 x 27 mm

0.4 kg

(Without Mounting Kit)

Desktop, Pole, Wall or

10/100 Mbps Ethernet Port

18V Passive PoE PD or 802.3af

Up to 95% (Non-Condensing)

Outdoor UV Stabilized Plastic

Up to 200 km/h (124 mph)

Window-Mounted

Main Power Status Ethernet Status 8-Level Signal Strength (User Configurable)

PoE PD via Adapter

-20 °C to +55 °C

-40 °C to +80 °C

IP55 Compliant

6 W (Typical)/8 W (Max.)

Wireless Interface

802.11a/n (2x2) Radio

 Operating Mode Standard Operating Frequency Transmit Power 		AP/CPE/Bridge/Repeater IEEE 802.11a/n 5.150 – 5.350 GHz 5.470 – 5.725 GHz 5.725 – 5.850 GHz 29 dBm (Max.)
		26 dBm (Per Chain)
Receiver Sensitivity		
802.11a	54 Mbps 6 Mbps	-83 dBm -96 dBm
802.11n	HT20 HT40	-95 dBm -91 dBm

- 16 SSID
- WMM, 802.11h, 802.11k, 802.11r, 802.11v, 802.11w
- Passpoint (Release 2)
- Fast Roaming
- Auto Channel Selection and TX Power Control
- Bandwidth Control Per SSID/Client
- Altai AirFi™ Throughput Optimization

Antenna

14 dBi Dual Slant ±45° Sector

- Horizontal Beamwidth
- 35 45° (-3 dB)
- Vertical Beamwidth

• Built-in 5 GHz Antenna

- 15 20° (-3 dB)
- Front-to-back Ratio -20 dB (Max.)

Networking

- Switch (Bridge) and Gateway Mode
- IPv4/IPv6 Dual-Stack
- NAT
- DHCP Client/Server
- PPPoE Client
- Soft-GRE
- VLAN
- Multicast Rate Filter/IGMP Snooping

Security

- Authentication Open, Shared key, WPA/WPA-PSK, WPA2/ WPA2-PSK, WPA3*, 802.1x (EAP-PEAP/TLS/TTLS/SIM/AKA)
- Encryption WEP, TKIP, AES
- Inter/Intra-SSID Client Isolation
- MAC-based Access Control (White/Black List)
- RADIUS/Active directory
- Dynamic VLAN Assignment
- Firewall
- WIDS/WIPS
- Broadcast/Multicast/Unicast Flooding Control

Management

- Management Platforms: AltaiGate, AltaiCare, AtlaiCare
 Appliance
- Web User Interface
- Command Line Interface (SSH)
- Remote Factory Reset
- Trusted Management IP List
- SNMP v1/v2c/v3
- MIB2/IF-MIB/Altai Enterprise MIB
- Syslog
- Spectral Analysis*
- KPI Monitoring*
 Client OS and Hostname Do
- Client OS and Hostname Detection

Physical Specifications

- Dimension
- Weight
- Mounting
- Network Interface
- LED Display

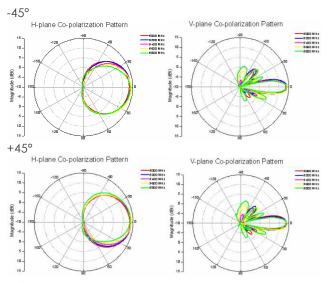
Power Supply

- Power Supply
- Power Consumption

Environmental Specifications

- Operating Temperature
- Storage Temperature
- Humidity
- Wind Loading
- Weatherproof

Antenna Pattern (Built-in Antennas)



Certifications

- FCC/CE/Others*
- RoHS Compliance

Product Ordering Information

C1an (Part No.: SD.C1-AN00-UK/US/EU)

- Standard Package
- C1an Super WiFi CPE/AP with Built-in 5 GHz Patch Antennas (Model No.: WA1011N-A)
- DC Injector and AC Adapter (UK, US, or EU)
- Cable Ties
- Optional Accessories
- 802.3af to Passive PoE Adapter

Contact Us

• Email: sales@altaitechnologies.com

C1an-PB-191213

*Will be available in the future. The coverage range will vary depending on NLOS and i

The coverage range will vary depending on NLOS and interference conditions The transmit power may vary according to country regulation