

Altai C1nL Super WiFi AP/CPE

The Altai C1nL WiFi AP/CPE is designed as an essential component in the Altai Super WiFi system to extend Wi-Fi coverage in indoor areas.



The Altai C1nL employs patented smart signal processing algorithms and antenna design to increase Wi-Fi signal strength (transmit and receive) in areas covered by an A8n(ac) Super WiFi Base Station or A2 WiFi Access Point. It can be installed in indoor areas where the throughput is required to boost up, and it allows the service operator to increase the coverage range of an A8n(ac) base station substantially and provides greater flexibility and cost savings to Wi-Fi deployments.

Coverage Range

Max. LOS Access	400 m
Max. Data Rate	300 Mbps

Control Traffic Throughput Flexibly

From day one, the C1nL is designed and purpose-built for service operators. 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 C1nL for Wireless Broadband

The C1nL is a key component in wireless broadband access provisioning. It can be installed by the side of a window or placed at the desktop inside for fixed broadband access provisioning.

Altai C1nL for Access Point

The C1nL can also be used as a standalone Wi-Fi access point for smaller networks supporting 802.11b/g/n clients. It is an important solution to complement the large coverage and high throughput of an A8n series Super WiFi Base Station and A2 Access Point to improve Wi-Fi performance.

As an integral part of our Super WiFi network infrastructure, the Altai C1nL 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 series antennas to increase indoor coverage
- 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
- 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

Wireless Interface

802.11b/g/n (2x2) Radio

- Operating Mode AP/ CPE
- Standard IEEE 802.11b/g/n
- Operating Frequency 2.400 – 2.484 GHz (Ch 1-13)
- Transmit Power 20 dBm (Max.)
- Receiver Sensitivity (Typical)

802.11b	11 Mbps	-91 dBm
	1 Mbps	-96 dBm
802.11g	54 Mbps	-81 dBm
	6 Mbps	-95 dBm
802.11n	HT20	-95 dBm
	HT40	-92 dBm

- 16 SSID (Max.)
- WDS
- Altai AirFi™ Throughput Optimization
- Automatic Channel Selection (with Scheduling)
- WMM
- Preferred AP Association

Antennas

- Built-in 2.4 GHz Antenna 5 dBi Dual Slant ±45° Patch
- Horizontal Beamwidth 70° (-3 dB)
- Vertical Beamwidth 30° (-3 dB)
- Front-to-back Ratio -20 dB (Max.)

Networking

- VLAN
- IPv4/IPv6 Dual-Stack
- Switch (Bridge) and Gateway Mode
- DHCP Client / Server
- NAT
- PPPoE Client
- Bandwidth Control Per VAP / Client
- Multicast Rate Filter / IGMP Snooping
- Port Forwarding

Security

- Authentication – Open system, Shared key, WPA / WPA-PSK, WPA2 / WPA2-PSK, 802.1x (EAP-PEAP/TLS/TLS/SIM/AKA)
- Encryption – WEP, TKIP, AES
- RADIUS Client
- RADIUS Accounting
- Inter/Intra-SSID Client Isolation
- MAC-based Access Control (White/Black List)
- SSID Suppression

Management

- Management Platforms: Standalone, AltaiGate, AltaiCare
- Web User Interface
- Command Line Interface (SSH)
- Remote Firmware Upgrade (HTTP, FTP)
- Remote Factory Reset
- Trusted Management IP List
- SNMP v1/v2c/v3
- MIB2/IF-MIB/Altai Enterprise MIB
- Syslog
- Performance Statistics
- Wi-Fi Client Association Statistics

Physical Specifications

- Dimension 242 x 80 x 27 mm (Without Mounting Kit)
- Weight 0.4 kg
- Mounting Desktop, Pole, Wall or Window-Mounted
- Network Interface 10/100 Mbps Ethernet Port
- LED Display Main Power Status
Ethernet Status
8-Level Signal Strength (User Configurable)

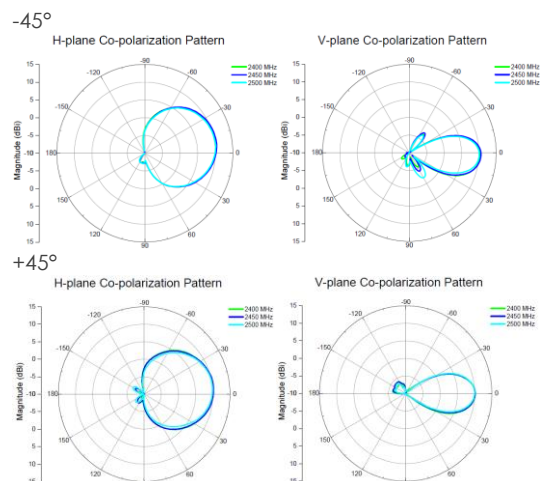
Power Supply

- Power Supply 18V Passive PoE PD or 802.3af PoE PD via Adapter
- Power Consumption 6 W (Typical) / 8 W (Max.)

Environmental Specifications

- Operating Temperature -20 °C to +55 °C
- Storage Temperature -40 °C to +80 °C
- Humidity 5 - 95% (Non-Condensing)

Antenna Pattern (Built-in Antennas)



Certifications

- FCC/CE/Others*
- RoHS Compliance

Product Ordering Information

Standard Package

- Indoor C1nL Super WiFi AP/CPE with Built-in 2.4 GHz Patch Antennas (Model No.: WA1011N-GL)
- DC Injector and AC Adapter
- Cable Ties
- Power Cord (EU Plug)

Optional Accessories

- 802.3af to Passive PoE Adapter
- Table Stand

Contact Us

- Email: sales@altaitechnologies.com

C1nL-PB-210830

*Will be available in the future.

The coverage range will vary depending on NLOS and interference conditions

The transmit power may vary according to country regulation

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