

C421

300Mbps CAT4 4G Router

Overview

The Cat4 Indoor CPE C421 is a wireless router, which support 2.4G Wi-Fi, providing high-speeding and stable LTE Cat4 network for users at home or in office. The product adopts ASR1803 cellular solution, which confirms to 3GPP Release10 standard.



Features

- Data service
- SMS
- Security service
- Local and OTA maintenance management function

Specification

| Hardware Performance | |
|----------------------|---|
| Chipset | ASR1803L@Cortex-A7, 22nm LTE/WCDMA HSPA+/EDGE RTL8192ES |
| LTE | 3GPP Release 10 CAT4 |
| Band Support | LTE: B1/3/5/7/8/20/38/40/41 HSPA+/HSPA/WCDMA: B1/5/8 EDGE/GPRS/GSM: B3/5/8 |
| Interface | 2x FE RJ45, 1x FXS, 1x Nano(4FF) Sim Slot 2x SMA Ports For External Antenna (Optional) |
| LED | 1x Power, 1x Mode, 1x Signal Strength, 1x Wi-Fi, 1x LAN |
| Button | 1x Power, 1x WPS, 1x Reset |
| Antenna | External LTE/UMTS/GSM primary antenna External LTE/UMTS secondary antenna Built-in WLAN 2.4G 3.5dBi antenna |

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| Maximum TX power | LTE | Conform to 3GPP Power Class 3 | |
| | WLAN | 2.4G | 802.11b: 17dBm |
| | | | 802.11g: 15dBm |
| | | | 802.11n: 14dBm |
| RX sensitivity | LTE | Conform to 3GPP Definition | |
| | UMTS | Conform to 3GPP Definition | |
| | GSM | -104dBm | |

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| | WLAN | 802.11b: -81dBm@11M 802.11g: -72dBm@54M 802.11n: -64dBm@MSC7 |
| Battery | 4000mAh /18650 battery(Optional) | |
| Power consumption | Max 7W | |
| USB power supply | Input 5V/2A | |
| Dimensions | 141.1*134.2*31.2mm | |
| Case material | PC,ABS | |
| Temperature | Working temperature: 0°C to 40°C Storage temperature: 0°C to 40°C | |
| Humidity | 5%-95% (Non-condensing) | |
| Gain | LTE/UMTS/GSM Primary: about 3.5dBi LTE/UMTS/GSM Secondary: about 3.5dBi WIFI 1: 3.0dBi WIFI 2: 3.5dBi | |
| Efficiency | LTE/UMTS/GSM Primary: about -2dBi LTE/UMTS/GSM Secondary: about -2dBi WIFI 1: -0.6dBi WIFI 2: -2dBi | |
| Polarization | LTE/UMTS/GSM: Linear WIFI: Linear | |
| Cellular Wireless Network | Network Search | Supports automatic or manual network search, the default is automatic |
| | Connection Management | Supports automatic and manual connection to the cellular network |
| | Network Mode | Supports various network mode Auto LTE only WCDMA only |
| | Profile Management | Auto mode, set the profile information required for Internet access according to the SIM card automatically, avoid cumbersome operations for users Profile name APN name User name User password |

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| | | <p>Authentication type, auto/pap/chap</p> <p>IP type, ipv4/6</p> |
| | Traffic statistics | <p>Supports traffic statistics, including</p> <p>Download, upload and total traffic and duration since the equipment is powered up</p> <p>Sum of download, upload and total traffic and duration since historical statistics were cleared</p> <p>You can manually clear historical statistics</p> |
| Wi-Fi | Wi-Fi settings | <p>SSID/Key</p> <p>Channel selection, auto or manual</p> <p>Various security mode and algorithms</p> <p>Disable</p> <p>WEP (wired equivalent protocol)</p> <p>WPA2 personal (Wi-Fi Protected Access 2 Personal), AES or TKIP</p> <p>WPA2/WPA mixed mode (Wi-Fi Protected Access 2 Personal/Wi-Fi Protected Access Personal), AES or TKIP</p> <p>Enable/disable SSID broadcast</p> <p>max number of users up to 32</p> <p>Enable/disable Wi-Fi</p> |
| | WPS | <p>Wi-Fi Protected Setup (WPS) is a latest standard published by the Wi-Fi Alliance with the aim of simplifying the configuration process to establish a secure wireless home network.</p> <p>The device Supports two WPS methods</p> <p>PBC (Push Button Configuration), in which user simply has to push a actual button or virtual one on web UI</p> <p>PIN (Personal Information Number), in which a PIN is entered into device through Web UI</p> |
| | MAC Address Authentication | <p>Support the following MAC address authentication method</p> <p>White list</p> <p>Black list</p> |
| Router | <p>The device works as a route, supports</p> <p>Default gateway address: 192.168.8.1</p> | |

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|---|--|---|--|-----------|--|
| | <p>Standard protocol such as ARP, ICMP, IPv4, IPv6, etc.</p> <p>NAT, translate a public IP address to a private IP address and vice versa</p> <table border="1" data-bbox="432 197 1449 701"> <tr> <td data-bbox="432 197 724 477">DHCP server</td> <td data-bbox="724 197 1449 477"> <p>DHCP server dynamically allocate IP address to client devices</p> <p>Enable/disable DHCP server</p> <p>Configures DHCP server address pool</p> <p>Lease time, default as 86400 seconds</p> </td> </tr> <tr> <td data-bbox="432 477 724 701">DNS relay</td> <td data-bbox="724 477 1449 701"> <p>Supports DNS relay for client devices</p> <p>Auto mode, use DNS servers from WAN</p> <p>Manual mode, set primary DNS and secondary DNS manually</p> </td> </tr> </table> | DHCP server | <p>DHCP server dynamically allocate IP address to client devices</p> <p>Enable/disable DHCP server</p> <p>Configures DHCP server address pool</p> <p>Lease time, default as 86400 seconds</p> | DNS relay | <p>Supports DNS relay for client devices</p> <p>Auto mode, use DNS servers from WAN</p> <p>Manual mode, set primary DNS and secondary DNS manually</p> |
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| Basic Status | <p>Users can view the following basic device information on web UI</p> <p>SIM status, Signal strength, roaming status</p> <p>Operator name</p> <p>Data transmission indication</p> <p>Network access technology</p> <p>Network Status</p> <p>WAN IP</p> <p>DNS</p> <p>Wi-Fi Status</p> <p>The number of devices connected to MiFi and their details, including name, IP, MAC, etc.</p> | | | | |
| Phone Book | <table border="1" data-bbox="432 1323 1449 2114"> <tr> <td data-bbox="432 1323 1449 1603"> <p>Supports contact group management</p> <p>Add group</p> <p>Delete group(s), batch operation is supported</p> <p>View and modify existing group information</p> <p>Supports search</p> </td> <td data-bbox="432 1603 1449 2114"> <p>Supports contact management</p> <p>Add contact</p> <p>Delete contact(s), batch operation is supported</p> <p>Move contact(s) to group, batch operation is supported</p> <p>Import contact from SIM card</p> <p>Supports search</p> <p>View contacts list, Supports pagination display</p> <p>Modify existing contact information, including name, number, group, etc.</p> <p>Select one or more contacts and send them a text message</p> </td> </tr> </table> | <p>Supports contact group management</p> <p>Add group</p> <p>Delete group(s), batch operation is supported</p> <p>View and modify existing group information</p> <p>Supports search</p> | <p>Supports contact management</p> <p>Add contact</p> <p>Delete contact(s), batch operation is supported</p> <p>Move contact(s) to group, batch operation is supported</p> <p>Import contact from SIM card</p> <p>Supports search</p> <p>View contacts list, Supports pagination display</p> <p>Modify existing contact information, including name, number, group, etc.</p> <p>Select one or more contacts and send them a text message</p> | | |
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| SMS | <p>Supports SMS (short message service) related functions</p> <p>Inbox, outbox, and draft management</p> <p>View list of messages, Supports pagination display and detail of messages, including number, content, date, etc.</p> <p>Edit, save, delete, and modify SMS</p> <p>Sending short message to one or more contacts</p> <p>Receives short message, new and unread message alerts</p> <p>Replay and forward message</p> <p>Supports various data coding scheme, GSM 7-bit and UCS</p> <p>Supports normal message, up to 160 ASCII characters or 70 UCS2 characters</p> <p>Supports long message (concatenated short messages), up to 612 ASCII characters or 268 UCS2 characters</p> <p>Supports flash message</p> | |
| Security | <p>The device supports the following security functions.</p> <p>IP Filter</p> <p>Port Filter</p> <p>URL Filter</p> <p>Port forward</p> <p>DMZ</p> <p>UPnP</p> <p>DDNS</p> | |
| Firmware Update | FOTA | <p>Provide complete FOTA solution</p> <p>Detect new firmware information on FOTA server manually/automatically, including version, size, release date, and release note, etc.</p> <p>Download new firmware from the server and update the device</p> <p>The server initiates a firmware update for the specified device</p> |
| | Local Update | Users can also upload firmware and update it through the Web UI |
| SIM Management | <p>Supports PIN of SIM Card, including</p> <p>Enable/disable PIN</p> <p>Change PIN</p> <p>Verify PIN</p> <p>Reset Pin by PUK</p> | |

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| Customization | Web UI |
| Functions | SIM Lock |
| | APN (Profile) |
| | Trusted boot |
| | USSD |
| | Domain name |



ALTI-LINK COMMUNICATION CO., LIMITED

Room 310, Building 4, Dongjiu Innovation Technology Park,
No#76 Bulan Road, 518057, Shenzhen, P.R.China
Email: inquiry@alti-link.com

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