

# Atom ID06 Indoor UE



## INTRODUCTION

The BaiCells Atom ID06 Indoor User Equipment (UE) provides superior wireless access performance and routing capabilities to bring broadband data and voice services to end-users. It converts high-speed Long-Term Evolution (LTE) Time Division Duplexing (TDD) signals to Wi-Fi signals on the local area network (LAN).

Wireless and wired devices, including mobile phones, laptops, tablets, and other smart devices, can access the UE simultaneously. 3GPP Release 10 compliance provides additional frequency band support on this UE, and the ID06 supports VoIP. The product comes with a standard one-year warranty.

## FEATURES

Note: Features may vary based on model or region.

- Supports LTE TDD Bands 40/41/42/43/48
  - Customization may be requested; contact [sales\\_na@baicells.com](mailto:sales_na@baicells.com).
- 2.5 GHz or 3.5 GHz models
- Complies with 3GPP Release 10 Cat6/7 standards
- 1000 Mbps Ethernet interface, POTS interface
- IEEE 802.11b/g/n Wi-Fi, 2.4 GHz
- VoIP with fax and POS equipment connectivity
- GUI-based local and remote Web management
- TR069 network management protocol support
- Cell lock, SIM lock, and pin lock
- User-friendly LED status indicators

## BASIC SPECIFICATIONS

LTE Standard	3GPP Release 10, Cat6/7
ETH LAN Port	One RJ-45 port 10/100/1000 auto-sensing, auto-MDX
LED Indicators	Power, WLAN, LTE (TEL), LTE Signal
POTS	One RJ-11 interface
USIM	1.8V/3V 2FF
Restore Button	Press for 10 seconds to restore the UE to its factory settings
Power Switch	On/off
Power Supply	Input: Universal range 100V-240V AC Output: 12VDC, 1.5A
Battery	Customization
Dimensions (H/W/D)	7.6 x 6.6 x 2.9 inches 193x168 x74 millimeters
Weight	14 oz / 400 g

## RF SPECIFICATIONS

LTE Mode	TDD
Channel Bandwidth	5/10/15/20 MHz
Carrier Aggregation	2CC CA
MAX Output Power	23 ± 2 dBm per transmit antenna
Frequency Bands	40/41/42/43/48

Peak Rate (20 MHz)	DL 220 Mbps, UL 15 Mbps (2:7)
Modulation	DL: QPSK, 16QAM, 64QAM UL: QPSK, 16QAM, 64QAM
Receive Sensitivity	-94 dBm @ QPSK, 20 MHz, 25°C
Antenna Type	Internal omni, 2T4R (UL enhanced)
Antenna Gain	6.5 dBi @ 3.x GHz 5 dBi @ 2.x GHz
Antenna Polarization	Linear, vertical
Antenna Efficiency	> 70%
Isolation	N/A
VSWR	≤ 2
Horizontal Beamwidth (3 dB)	N/A
Vertical Beamwidth (3 dB)	N/A

## VOICE SPECIFICATIONS

VoIP	Dual-APN, SIP ALG, G711 fax pass-through, T38 fax relay
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## SOFTWARE SPECIFICATIONS

Network Mode	NAT or Bridge
IP Protocol	IPv4/IPv6
SIM	PIN management, SIM lock
Network Connection	Auto or manual
LTE Scan Mode	Full band scan or frequency lock
WLAN	WPS, MSSID isolation
VPN	L2TP L2/L3, GRE L2/L3
NAT	Port forwarding/triggering, DMZ, ALG
Firewall	IP/MAC/URL filter; access control; block port scanner / SYN flood; SPI filter
Network Mgmt	TR069, TR104, SNMP
Diagnostics	TCP dump, ping, traceroute
Statistics	LTE status; connection, system up time; device status; DHCP client list; Wi-Fi station list; LTE status; firewall status
Maintenance	Date and time setting; reboot; restore factory settings; restore or back up configuration files; firmware upgrade locally or OTA

System Logs	Operating, run-time, filter / select / display / export
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## ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	14°F to 113°F / -10°C to 45°C
Storage Temperature	-4°F to 158°F / -20°C to 70°C
Operating Humidity	5% to 95%

## WI-FI SPECIFICATIONS

Standard	IEEE 802.11b/g/n
Channel Bandwidth	20/40 MHz
Frequency	2.4 GHz
MIMO	2x2
Peak Rate	802.11b: 11 Mbps 802.11g: 54 Mbps 802.11n: 300 Mbps
Modulation	DSSS/CCK, OFDM
Receive Sensitivity	<ul style="list-style-type: none"> <li>-64 dBm @ 65 Mbps, typical for 802.11n</li> <li>-65 dBm @ 54 Mbps, typical for 802.11g</li> <li>-76 dBm @ 11 Mbps, typical for 802.11b</li> </ul>
Max Output Power	17 ±3 dBm
Antenna Type	Internal omni, 2T4R
Antenna Gain	2 dBi
Active Users	32

## GLOBAL PART NUMBERS

EG2011B-M3	Atom Indoor Cat6/7, 2T4R, 2.5 GHz, 5 dBi, B41 UE <ul style="list-style-type: none"> <li>FCC certification: 2AG32EG2011B (2447-2685 MHz)</li> <li>IC certification: 20982-EG2011B (2400-2690 MHz)</li> </ul>
EG2013B-M11	Atom Indoor Cat6/7, 2T4R, 3.5 GHz, 6.5 dBi, 1GE, B42/43/48 UE <ul style="list-style-type: none"> <li>FCC certification: 2AG32EG2013B (2412-3697.5 MHz)</li> <li>IC certification: 20982-EG2013B (3650-3700 MHz)</li> </ul>

Notes:

- 1 - Other models available for other regions. Contact [sales\\_na@baicells.com](mailto:sales_na@baicells.com).
- 2 - Customized versions may be requested.