

Atom ID06-6.5 Indoor UE



INTRODUCTION

The Baicells Atom ID06-6.5 Indoor User Equipment (UE) provides superior wireless access performance and comprehensive routing capabilities to bring wireless broadband data and voice services to end-users. It converts high-speed LTE FDD or TDD signals to Wi-Fi signals on the local area network. Wireless and wired devices, including mobile phones, laptops, tablets, and other smart devices, can access the UE simultaneously. 3GPP Release 10 provides additional frequency bands to this UE, and it supports VoIP.

FEATURES

- Supports TDD and FDD LTE network modes
 - TDD bands 34, 38, 39, 40, 41, 42, 43, and 48
 - FDD bands 3, 7, 8, 20, and 28
- 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 voice communications, with fax and POS equipment connectivity
- Convenient, simple, GUI-based local and remote Web management
- TR069 network management protocol
- Cell lock, SIM lock, and Pin lock
- User-friendly LED indicators

BASIC SPECIFICATIONS

LTE Standard	3GPP Release 10, CAT 6/7
Ethernet 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	Tactile button. Press for at least 10 seconds to restore UE to factory settings
Power Switch	On/off
Battery	Customization
Power Supply	Input: Universal range 100V-240V AC Output: 12VDC, 1.5A
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 / FDD
Channel Bandwidth	5/10/15/20 MHz
TXRX*	1T4R 2T4R
Carrier Aggregation	2CC CA
MAX Output Power*	23 ± 2 dBm per transmit antenna
TXRX	1T4R 2T4R (uplink enhanced)

Frequency Bands*	Bands 34/38/39/40/41 Bands 3/7/20 Bands 3/8/28 Bands 42/43/48
Peak Rate	FDD DL: 300 Mbps, UL: 75 Mbps TDD DL: 220 Mbps, UL: 15 Mbps (2:7)
Modulation	UL: QPSK, 16QAM, 64QAM DL: QPSK, 16QAM, 64QAM
Receive Sensitivity	- 94 dBm @ QPSK, 20 MHz, 25°C
Antenna Type	Internal omni
Antenna Gain	6.5 dBi @ 3.x GHz 5 dBi @ 2.x GHz 4 dBi @ 1.x GHz 3 dBi @ sub-1 GHz
Polarization	Linear, vertical
Antenna Efficiency	> 70%
Isolation	N/A
VSWR	≤ 2
Horizontal Beamwidth (3 dB)	N/A
Vertical Beamwidth (3 dB)	N/A

*Different models support different frequencies, antennas, and Carrier Aggregation configurations.

SOFTWARE SPECIFICATIONS

Network Mode	NAT / Bridge / Tunnel
IP Protocol	IPv4/IPv6
SIM	PIN management SIM lock
Network Connection Management	Auto / Manual
LTE Scan Mode	Full band scan, frequency lock
WLAN	WPS MSSID isolation
VPN	L2TP L2/L3 GRE L2/L3
NAT	Port forwarding Port trigger DMZ ALG
Firewall	IP/MAC/URL filter Access control Block port scanner / SYN flood SPI filter
Network Management	TR069 TR104 SNMP
Diagnostics	TCP dump Ping Trace route

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 / back up configuration files Firmware upgrade locally or OTA
System Logs	Operating Run-time Filter / Select / Display / Export
Antenna Selection	Customization

a - EG2-C series UEs support VxLAN for L2 VPN, and L2 QoS.

b - EG2-B series UEs support GRE for L2 VPN, but not support L2 QoS

WI-FI SPECIFICATIONS

Standard	IEEE 802.11b/g/n
Channel Bandwidth	20/40 MHz
Frequency	2.4 GHz
TXRX	2T2R
MIMO	2x2
Peak Rate	802.11b: 11 Mbps 802.11g: 54 Mbps 802.11n: 300 Mbps
Modulation	DSSS/CCK, OFDM
Receive Sensitivity	-64 dBm @ 65 Mbps, typical for 802.11n -65 dBm @ 54 Mbps, typical for 802.11g -76 dBm @ 11 Mbps, typical for 802.11b
Max Output Power	17±3dBm
Antenna Type	Internal omni
Antenna Gain	2 dBi
Active Users	32

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%

VOICE SPECIFICATIONS

VoIP	Dual-APN SIP ALG G711 fax pass-through T38 fax relay
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GLOBAL PART NUMBERS

EG2011B-M3	Atom Indoor 6dBi UE CAT 6/7, 2T4R, Band 40/41
EG2013B-M11	Atom Indoor 6dBi UE CAT 6/7, 2T4R, Band 42/43/48