

Atom ID04 Indoor UE



INTRODUCTION

The BaiCells Atom ID04 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. 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
- 2.5 GHz or 3.5 GHz models
- Complies with 3GPP Release 9 Cat4 standards
- 100 Mbps Ethernet interface
- IEEE 802.11b/g/n Wi-Fi compliant, 2.4 GHz supported
- 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 9 Cat4
ETH LAN Port	1 RJ-45 port 10/100 auto-sensing, auto-MDX
LED Indicators	Power, LTE, LTE Signal, WLAN
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 to 240V AC Output: 12VDC
Battery	Customization
Dimensions (HxWxD)	7.6 x 6.6 x 2.9 inches 193 x 168 x 74 millimeters
Weight	14 oz / 400 g

RF SPECIFICATIONS

LTE Mode	TDD
Channel Bandwidth	5/10/15/20 MHz
Max Output Power	23 ± 2 dBm
Frequency Bands	40/41/42/43/48
Peak Rate (20 MHz)	DL 100 Mbps, UL 10 Mbps (2:7)
Modulation	DL: QPSK, 16QAM, 64QAM UL: QPSK, 16QAM
Receive Sensitivity	-94 dBm @ QPSK, 20 MHz, 25°C
Antenna Type	Internal Omni, 1T2R

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

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, VLAN
VPN	L2TP, GRE, PPTP, L2 VxLAN
NAT	Port forwarding, port trigger, DMZ, ALG
Firewall	IP/MAC/URL filter; access control; block port scanner/SYN flood; SPI filter
Network Mgmt	TR069, SNMP
Diagnostics	TCP dump, ping, traceroute
Statistics	LTE status; connection/system up time; device status; DHCP client list; Wi-Fi station list; firewall status
Maintenance	Date and time setting; reboot; restore factory settings; restore or back up configuration file; firmware upgrade locally or OTA
System Logs	Operating; run-time; filter/ select / display / export

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
Humidity	5%~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"> -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 ± 3 dBm
Antenna Type	Internal omni, 2T2R
Antenna Gain	2 dBi
Active Users	32

GLOBAL PART NUMBERS

EG2030C-M1	Atom Indoor Cat4, 1T2R, 2.5 GHz, 5 dBi, B40/41, Gen 2 UE <ul style="list-style-type: none"> FCC certification: 2AG32EG2030CM1 (2412-2687.5 MHz) IC certification: 20982-EG2030CM1 (2400-2690 MHz)
EG2030C-M11	Atom Indoor Cat4, 1T2R, 3.5 GHz, 6 dBi, B42/43/48, Gen 2 UE <ul style="list-style-type: none"> FCC certification: 2AG32EG2030CM2 (3652.5-3697.5 MHz)

Notes:

- 1 - Other models available for other regions. Contact sales_na@baicells.com.
- 2 - Customized versions may be requested.