



INTRODUCTION

The Baicells Atom ID04-6.5 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 TDD or FDD LTE 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.

FEATURES

- Supports TDD and FDD LTE network modes
 - TDD bands 38, 40, 41, 42, 43 and 48
 - FDD band 7
- Complies with 3GPP Release 9 CAT4 standards
- 100 Mbps Ethernet interface
- IEEE 802.11b/g/n Wi-Fi
- 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 9, CAT4
Ethernet LAN Port	One RJ-45 port 10/100 auto-sensing, auto-MDX
LED Indicators	Power / LTE / LTE Signal / WLAN
USIM	1.8V/3V 2FF
Restore Button	Tactile button. Press the button for at least 10 seconds to restore the UE to its factory settings
Power Switch	On/Off
Power Supply	Input: Universal range 100V~240V AC Output: 5VDC, 2A or 12VDC, 1A
Battery	Customization
Dimensions	About 7.6 in (H) x 6.6 in (W) x 2.9 in (D) 193 mm *168 mm *74 mm
Weight	About 14 oz (400 g)
Color	Pantone white C

RF SPECIFICATIONS

LTE Mode	TDD/FDD
Channel Bandwidth	5 MHz / 10 MHz / 15 MHz / 20 MHz
MAX Output Power	23 ± 2dBm
Frequency Bands	Bands 7/38 Bands 40/41 Bands 42/43/48
TXRX	1T2R
Peak Rate	FDD DL: 100 Mbps, UL: 50 Mbps TDD DL: 100 Mbps, UL: 10 Mbps (2:7)
Modulation	UL: QPSK, 16QAM DL: QPSK, 16QAM, 64QAM
Antenna Type	Internal omni
Polarization	Linear, vertical
Antenna Efficiency	>70%
Isolation	N/A
VSWR	≤2
Horizontal Beamwidth (3 dB)	N/A
Vertical Beamwidth (3 dB)	N/A
Antenna Gain	6.5 dBi @ 3.x GHz 5 dBi @ 2.x GHz 4 dBi @ 1.x GHz 3 dBi @ sub-1 GHz
Wi-Fi Standard	802.11b/g/n

SW 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 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 Management	TR069 SNMP
Diagnostics	TCP dump Ping Trace route
Statistics	LTE status / connection time / system up time Device status DHCP client list Wi-Fi station list LTE status Firewall status

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% ~ 95%

WI-FI SPECIFICATIONS

Standard	IEEE 802.11b/g/n
Channel Bandwidth	20/40 MHz
Frequency	2.4 GHz
TXRX	2T2R
MIMO	2*2
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

DEVICE MANAGEMENT

Maintenance	Date & Time setting Reboot Restore factory settings Restore / Back up configuration file Firmware upgrade locally or OTA
TR069	Can enable or disable TR069 management
Port Mirror	Can enable or disable the port mirror function
System Logs	Operating Run-time Filter / select / display / export
Antenna Select	Customization

ADDITIONAL INFORMATION

Model	Description
EG2030C-M1	Bands 40/41
EG2030C-M2, EG2012C-M2	Bands 42/43
EG2230C-M10	Bands 7/38
EG2030C-M11	Bands 42/43/48