



## INTRODUCTION

The Baicells Spectra Long-Term Evolution - Unlicensed (LTE-U) user equipment (UE) is an outdoor end-user product that utilizes Frequency Division Duplexing (FDD)\* technology on unlicensed frequencies to bring broadband data and voice services to end users.

Multiple users with wireless and wired smart devices, such as smart LTE phones, laptops, tablets, and printers, can access the UE simultaneously to reach the Internet. The Spectra LTE-U UE is easy to install and set up. The product comes with a standard one-year warranty; extended warranty is available.

\*Note: FDD availability in U.S. pending FCC certification

## FEATURES

Note: Features may vary based on model or region.

- Supports LTE FDD self-defined frequency within DL 5725-5825, UL 5150-5250 range
  - Customization may be requested; contact [sales\\_na@baicells.com](mailto:sales_na@baicells.com).
- Complies with 3GPP Release 9 Cat4 standards
- 1000 Mbps Ethernet interface
- Built-in directional, high-gain LTE antenna
- GUI-based local and remote Web management
- TR069 network management protocol support

- Cell lock, SIM lock, and pin lock
- User-friendly LED status indicators
- Power supply with standard PoE at/af
- Pole or wall mount

## BASIC SPECIFICATIONS

LTE Standard	3GPP Release 9, Cat4
ETH Port	1 RJ-45, LAN, 10/100/1000 auto-sensing, auto-MDX, PoE at/af
LED Indicators	MIU, LTE, SIM, LAN, PWR, LTE Signal
SIM	1.8V/3.0V USIM 2FF
Restoret Button	Press for 10 seconds to restore the UE to its factory settings
Power Supply	Universal 100-240V AC or 802.3at/af Standard PoE at/af
Dimensions (HxWxD)	8 x 6 x 2.8 inches 205 x 155 x 70 millimeters
Weight	3.3 lbs / 1500 g

## RF SPECIFICATIONS

LTE Mode	FDD
Channel Bandwidth	5/10/15/20 MHz
Max Output Power	23 ± 2 dBm / TX antenna
Frequency Bands	FDD self-defined: DL 5725-5825, UL 5150-5250, and customized

Peak Rate (20 MHz)	DL 150 Mbps, UL 75 Mbps
Modulation	DL: QPSK, 16QAM, 64QAM UL: QPSK, 16QAM, 64QAM
Receive Sensitivity	-93 dBm @ QPSK, 20 MHz, 25°C
Antenna Type	Internal directional, 1T2R
Antenna Gain	14 ±1°dBi@5150-5925MHz, 2 ports
Antenna Polarization	±45°
Antenna Efficiency	>75%
Isolation	≤ -15 dB
VSWR	≤ 2
Horizontal Beamwidth (3 dB)	33 ±3°@5150-5925MHz, 2 ports
Vertical Beamwidth (3 dB)	22 ±3°@5150-5925MHz, 2 ports

## SOFTWARE SPECIFICATIONS

Network Mode	NAT, Router, Bridge
IP Protocol	IPv4/IPv6
SIM	PIN management, SIM lock
Network Connection	Auto or Manual
LTE Scan Mode	Full band scan, frequency lock, PCI lock
VPN	L2TP L2/L3
NAT	Port forwarding/trigger, DMZ, ALG
Firewall	IP/MAC/URL filter; access control; block port scanner/SYN flood; SPI filter
Network Mgmt	TR069
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	-40°F to 131°F / -40°C to 55°C
Storage Temperature	-40°F to 158°F / -40°C to 70°C
Humidity	5% to 95%
IP Rating	IP65

## GLOBAL PART NUMBER

u4G-UE1000	Unlicensed frequency, outdoor, Cat4, 1T2R, self-defined FDD (DL 5725-5925, UL 5150-5250 MHz) UE <ul style="list-style-type: none"> <li>• FCC certification: 2AG32U4GUE1000</li> <li>• IC certification: 20982-U4GUE1000</li> </ul>
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### Notes:

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