



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.
- Complies with 3GPP Release 9 Cat4 standards
- 1000 Mbps Ethernet interface
- Built-in directional, high-gain LTE antenna
- GUI-based local and remote management
- TR-069 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

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|--------------------|--|
| 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

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|-------------------|--|
| 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 |

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| 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

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|--------------------|---|
| 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

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|-----------------------|--------------------------------|
| 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

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

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