Spectra LTE-U OD FDD u4G-UE1000 UE

INTRODUCTION

The Baicells u4G-UE1000 is an outdoor user equipment (UE) product that works on unlicensed frequencies. The UE converts high-speed Long-term Evolution (LTE) Frequency Division Duplexing (FDD) signals to Wi-Fi signals on the local area network to bring broadband data and voice services to end users.

The u4G-UE1000 is a type of LTE-Unlicensed user product that is easy to set up. Users with wireless and wired smart devices such as mobile phones, laptops, tablets, and printers can access the UE simultaneously to reach the internet.

FEATURES

- Supports LTE FDD UL 5150-5250 MHz, DL 5725-5925 MHz
- Complies with 3GPP Release 9 CAT4 standards
- 1000 Mbps Ethernet interface
- Built-in bipolar directional high-gain LTE antenna
- Simple local and remote Web GUI management
- TR069 network management protocol
- Cell lock, SIM lock, and Pin lock

- User-friendly LED indicators
- Power supply with standard PoE at/af
- Pole or wall mount

BASIC SPECIFICATIONS

LTE Standard	3GPP Release 9, CAT4
Ethernet Port	1 RJ-45 port 10/100/1000 auto-sensing, auto-MDX, PoE at/af
LED Indicators	MIU, LTE, SIM, LAN, PWR, LTE Signal
USIM	1.8V/3V 2FF
Reset Button	Tactile button. Press for at least 10 secons to reset the UE to its factory settings.
Power Supply	Input: Universal range 100V to 240V AC Output: 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 DL 5725-5925, UL 5150-5250 MHz
TXRX	1T2R
Peak Rate @ 20 MHz	FDD: DL 150 Mbps, UL 75 Mbps
Modulation	UL: QPSK, 16QAM, 64QAM DL: QPSK, 16QAM, 64QAM
Receive Sensitivity	-93 dBm @ QPSK, 20 MHz, 25°C
Antenna Type	Internal directional
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
Antenna Gain	14±1 dBi@5150-5925MHz, 2 ports

SOFTWARE SPECIFICATIONS

Network Mode	NAT / Router / Bridge
IP Protocol	IPv4 / IPv6
SIM Management	PIN management, SIM lock
Network Connection Management	Auto / Manual
LTE Scan Mode	Full band scan, frequency lock, PCI lock
WLAN	Wi-Fi for UE alignment
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 Mgmt	TR069
Diagnostics	TCP dump, ping, traceroute
Statistics	LTE status/connection time/system up time; device status; DHCP client list; Wi-Fi station list; LTE & firewall status
Maintenance	Data and time setting; reboot; restore factory settings; restore/back up configuration file; firmware upgrade locally or OTA
System Logs	Operating; run-time; filter/select/display/export
Antenna Select	N/A

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%~95%
IP Rating	IP65

GLOBAL PART NUMBERS

u4G-UE1000	u4G-UE1000 (LTE CPE ODU, Self-defined FDD, CAT4, 1T2R, 1GE, PoE at/af, IP65)