Atom OD04-14 Outdoor UE

INTRODUCTION

The Baicells Atom OD04-14 Outdoor 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
- Convenient, simple, GUI-based local and remote Web management
- Built-in bipolar directional high-gain LTE antenna
- TR069 network management protocol
- Cell lock, SIM lock, and Pin lock
- User-friendly LED indicators
- Power supply with PoE
- Pole mount or wall mount
- Wi-Fi assisted alignment

BASIC SPECIFICATIONS

LTE Standard	3GPP Release 9, CAT4
Ethernet LAN Port	One RJ-45 port 10/100 auto-sensing, auto-MDX, PoE
LED Indicators	MIU/LTE/SIM/LAN/PWR/LTE Signal
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 Supply	Input: Universal range 100V~240V AC Output: PoE (24 VDC, 0.5A)
Dimensions	About 9.5 in (H) x 6 in (W) x 2 in (D) About 241mm * 154mm * 50mm
Weight	About 2 lbs (900 g)

RF SPECIFICATIONS

LTE Mode	TDD/FDD
Channel Bandwidth	5 MHz / 10 MHz / 15 MHz / 20 MHz
MAX Output Power	23 ± 2dBm
TXRX	1T2R
Frequency Bands	Bands 7/38 Bands 40/41 Bands 42/43/48
Peak Rate	FDD DL: 100 Mbps, UL 50 Mbps TDD DL: 100 Mbps, UL 10 Mbps (2:7)
Antenna Gain	14 dBi @ 3.x GHz, 2 ports 11 dBi @ 2.x GHz, 2 ports
Modulation	UL: QPSK, 16QAM DL: QPSK, 16QAM, 64QAM
Receive Sensitivity	-94 dBm @ QPSK, 20 MHz, 25°C
Antenna Type	Internal directional
Polarization	±45°
Antenna Efficiency	> 70%
Isolation	≤ -25dB
VSWR	≤ 2
Horizontal Beamwidth (3 dB)	63 ±3°@ 2.x GHz, 2 ports 60 ±3°@ 3.x GHz, 2 ports
Vertical Beamwidth (3 dB)	35 ±3°@ 2.x GHz, 2 ports 25 ±5°@ 3.x GHz, 2 ports

ADDITIONAL INFORMATION

EG7035L-M1	Bands 40/41
EG7035L-M2	Bands 42/43
EG7035L-M10	Bands 7/38
EG7035L-M11	Bands 42/43/48
EG7011B-M2	Bands 42/43

SW SPECIFICATIONS

Network Mode	NAT / Bridge / Tunnel
SIM	PIN management SIM lock
IP Protocol	IPv4 / IPv6
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
Maintenance	Date and time setting; Reboot; Restore factory settings; Restore / back up configuration files; 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
Operating Humidity	5% ~ 95%
Ingress Protection Rating	IP65

WIFI SPECIFICATIONS

Standard	IEEE 802.11 b/g/n
Channel Bandwidth	20/40 MHz
Frequency	2.4 GHz
TXRX	1T1R
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	10 ±3dBm
Antenna Type	Internal omni
Antenna Gain	0 dBi