

Atom OD06-LX Outdoor CPE



INTRODUCTION

The Baicells Atom OD06-LX Outdoor Customer Premise Equipment (CPE) provides superior performance and excellent routing capabilities, which will bring broadband data and voice services to end-users.

Wireless and wired devices, including mobile phones, laptops, tablets, and other smart devices, can access the CPE simultaneously.

This product comes with a standard product warranty; an extended warranty is available.

FEATURES

Note: Features may vary based on model or region.

- Supports LTE TDD Bands 42/43/48
 - Customization can be requested; contact sales_na@baicells.com
- Complies with 3GPP Release 10 Cat6/7 standards
- 1000 Mbps Ethernet interface
- Built-in bipolar directional LTE antenna
- GUI-based local and remote Web management
- TR-069 network management protocol support
- Cell lock, SIM lock, and pin lock
- User-friendly LED status indicators
- Pole or wall mounted
- Wi-Fi assisted alignment

BASIC SPECIFICATIONS

LTE Standard	3GPP Release 10 Cat6/7
ETH LAN Port	1 RJ-45 port 10/100/1000 auto-sensing, auto-MDX, PoE
LED Indicators	MIU, LTE, SIM, LAN, PWR, LTE Signal
USIM	1.8 V/3 V 2FF
Restore Button	Press for 10 seconds to restore the CPE to its factory settings
Power Supply	Input: Universal range 100 V-240 VAC Output: PoE (24 VDC)
Dimensions (HxWxD)	9.5 x 6.1 x 2.0 inches 241 x 154 x 50 millimeters
Weight	2 lbs/900 g

RF SPECIFICATIONS

LTE Mode	TDD
Channel Bandwidth	5/10/15/20 MHz
Carrier Aggregation	2CC CA
Max Output Power	23 ± 2 dBm per Tx antenna
TxRx	2T2R
Frequency Bands	42/43/48
Peak Rate (20 MHz)	DL 220 Mbps, UL 30 Mbps (2:7)
Modulation	• DL: QPSK, 16 QAM, 64 QAM • UL: QPSK, 16 QAM, 64 QAM

Receive Sensitivity	-94 dBm @ QPSK, 20 MHz, 25°C
Antenna Type	Internal directional, 2T2R
Antenna Gain	14 dBi @ 3.x GHz, 2 ports
Polarization	± 45°
Antenna Efficiency	> 70%
Isolation	≤-25 dB
VSWR	≤ 2
Horizontal Beamwidth (3 dB)	60 ± 3°
Vertical Beamwidth (3 dB)	25 ± 5°

SOFTWARE SPECIFICATIONS

Network Mode	NAT or Bridge
IP Protocol	IPv4/IPv6
SIM	PIN management, SIM lock
Network Connection	Auto or manual
LTE Scan Mode	Full band scan or frequency lock
VPN	L2TP L2/L3, GRE L2/L3, PPTP
NAT	Port forwarding, port trigger, DMZ, ALG
Firewall	IP/MAC/URL filter; access control; block port scanner/SYN flood; SPI filter
Network Mgmt.	TR-069, SNMP*
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

*Future software release

Wi-Fi ALIGNMENT SPECIFICATIONS

Standard	IEEE 802.11b/g/n
Channel Bandwidth	20/40 MHz
Frequency	2.4 GHz
MIMO	1x1
Peak Rate	<ul style="list-style-type: none"> • 802.11b: 11 Mbps • 802.11g: 54 Mbps • 802.11n: 150 Mbps
Modulation	DSSS/CCK, OFDM
Receive Sensitivity	<ul style="list-style-type: none"> • -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 ± 3 dBm
Antenna Type	Internal omni, 1T1R
Antenna Gain	0 dBi

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% RH
IP Protection Rating	IP65

GLOBAL PART NUMBERS

EG8013L-M11	Atom Outdoor Cat6/7, 2T2R, 14 dBi, Bands 42/43/48, internal directional antenna, 1 GE, PoE 24 V, IP65 <ul style="list-style-type: none"> • FCC certification: TBD • IC certification: TBD
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Notes: Customized versions can be requested.