

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

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

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

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

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

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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% 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: 2AG32EG8013LM11 • IC certification: TBD |
|-------------|---|

Notes: Customized versions can be requested.