



## INTRODUCTION

The Baicells Simple Network Access Point (SNAP) Power over Ethernet (PoE) router is an on-premise Wi-Fi access point that provides comprehensive routing capabilities to multiple users accessing the Internet through Baicells outdoor user equipment (UE). The router provides PoE power to an outdoor UE through the Ethernet connection, thus eliminating the need for a separate power connection and adaptor for the UE.

Wi-Fi signals from user devices such as mobile phones, laptops, and tablets pass through the SNAP router and are forwarded to the outdoor UE where the Wi-Fi signals are changed to Long-Term Evolution (LTE) signals and sent on to the high-speed LTE network.

The SNAP router supports 2.4 GHz and 5 GHz Wi-Fi, may be used with the Atom Outdoor Low-Gain or Atom Outdoor High-Gain UE, and is managed through a device GUI and the Baicells Operations Management Console (OMC). The product comes with a standard one-year warranty; extended warranty is available.

## FEATURES

Note: Features may vary based on model or region.

- 1000 Mbps WAN with PoE output
- 1000 Mbps LAN port

- Standard IEEE 802.11b/g/n/ac Wi-Fi operating in dual-band 2.4 GHz and 5 GHz mode
- Local and remote management
- TR-069 network management protocol supported
- User-friendly LED status Indicators

## BASIC SPECIFICATIONS

|                  |  |
|------------------|--|
| WAN Port         | 1*10/100/1000 auto-sensing, auto-MDX                               |
| LAN Port         | 2*10/100/1000 auto-sensing, auto-MDX                               |
| Power Supply     | Input: Universal range 100V-240V AC<br>PoE Output: 24V DC PoE, 2A  |
| Power Switch     | On/Off   |
| Reset Button     | Press for 10 seconds to restore the router to its factory settings |
| LEDs             | Power/WLAN/SYS/LTE Signal  |
| Dimensions H/W/D | 6.9 x 5 x 1 inches<br>175 x 130 x 30 millimeters                   |
| Weight           | 17.6 ounces / 500 grams  |

## Wi-Fi SPECIFICATIONS

|                   |   |
|-------------------|---|
| Standard          | IEEE 802.11b/g/n/ac   |
| Channel Bandwidth | 20 MHz, 40 or 20 MHz, 40 MHz, 80 MHz  |
| Frequency         | 2.4 GHz and 5 GHz dual-band support   |
| MIMO              | 2x2   |
| Peak Rate         | 802.11b: 11 Mbps<br>802.11g: 54 Mbps<br>802.11n: 300 Mbps<br>802.11ac: 866 Mbps   |
| Modulation        | DSSS/CCK, OFDM  |
| Sensitivity       | <ul style="list-style-type: none"> <li>-64 dBm @ 65 Mbps, typical for 802.11n/ac</li> <li>-65 dBm @ 54 Mbps, typical for 802.11g</li> <li>-76 dBm @ 11 Mbps, typical for 802.11b</li> </ul> |
| Max Output Power  | 14±3 dBm  |
| Antenna Type      | Internal omni, 2T2R   |
| Antenna Gain      | 5 dBi   |
| Active Users      | 32  |

## 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, frequency lock, PCI lock                         |
| WLAN               | WPS, MSSID isolation   |
| VPN                | L2TP/PPTP/GRE, VxLAN   |
| NAT                | Port forwarding, DMZ, ALG  |
| Firewall           | IP/MAC/URL filter, access control, block port scanner, SYN flood |
| Network Mgmt       | TR069  |
| Diagnostics        | TCP dump, ping, trace route                                      |

|                   |  |
|-------------------|--|
| Statistics        | <ul style="list-style-type: none"> <li>LTE status</li> <li>Connection, system up time</li> <li>Device status</li> <li>DHCP client list</li> <li>Wi-Fi station list</li> <li>Firewall status</li> </ul>   |
| Maintenance       | <ul style="list-style-type: none"> <li>Date and time setting</li> <li>Reboot</li> <li>Restore factory settings</li> <li>Restore/back up config files</li> <li>Firmware upgrade locally or OTA</li> </ul> |
| System Logs       | Operating, run-time, filter / select / display / export  |
| Antenna Selection | N/A  |

## ENVIRONMENTAL SPECIFICATIONS

|                       |                               |
|-----------------------|-------------------------------|
| Operating Temperature | 14°F to 113°F / -10°C to 45°C |
| Storage Temperature   | -4°F to 158°F / -20°C to 70°C |
| Operating Humidity    | 5% to 95%                     |

## GLOBAL PART NUMBER

|        |   |
|--------|---|
| EP3011 | <p>PoE Wi-Fi Router - IEEE 802.11b/g/n/ac Wi-Fi, 2.4/5 GHz dual-band with PoE output</p> <ul style="list-style-type: none"> <li>FCC certification: 2AG32EP3011</li> <li>IC certification: 20982-EP3011</li> </ul> |
|--------|---|

### Notes:

- 1 - Other models available for other regions. Contact [sales\\_na@baicells.com](mailto:sales_na@baicells.com).
- 2 - Customized versions may be requested.