



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 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 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 802.11g: 54 Mbps 802.11n: 300 Mbps 802.11ac: 866 Mbps
Modulation	DSSS/CCK, OFDM
Sensitivity	<ul style="list-style-type: none"> -64 dBm @ 65 Mbps, typical for 802.11n/ac -65 dBm @ 54 Mbps, typical for 802.11g -76 dBm @ 11 Mbps, typical for 802.11b
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	iPerf, ping, traceroute

Statistics	<ul style="list-style-type: none"> LTE status Connection, system up time Device status DHCP client list Wi-Fi station list
Maintenance	<ul style="list-style-type: none"> Date and time setting Reboot Restore factory settings Restore/back up config files Firmware upgrade locally or OTA
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	PoE Wi-Fi Router - IEEE 802.11b/g/n/ac Wi-Fi, 2.4/5 GHz dual-band with PoE output <ul style="list-style-type: none"> FCC certification: 2AG32EP3011 IC certification: 20982-EP3011
1103000242	Part Number (US)

Notes:

- 1 - Other models available for other regions. Contact sales_na@baicells.com.
- 2 - Customized versions may be requested.