SNAP PoE Router

Customer Premise Equipment Datasheet



INTRODUCTION

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

Wi-Fi signals from user devices such as mobile phones, laptops, and tablets pass through the SNAP router and are forwarded to the outdoor CPE 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, can be used with the Atom Outdoor Low-Gain or Atom Outdoor High-Gain CPE, and is managed through the Operations Management Console (OMC).

This product has a standard one-year warranty; an extended warranty is available. Contact a Baicells representative for more information:

- Email *sales_na@baicells.com* for North America.
- Email *contact@baicells.com* for all other regions.

HIGHLIGHTS

NOTE: Features can vary based on model or region.

- Standard IEEE 802.11b/g/n/ac Wi-Fi operating in dual-band (2.4 GHz and 5 GHz) mode
- 1000 Mbps WAN with PoE output
- 1000 Mbps LAN port
- Supports management through the OMC
- Supports TR-069 network management interface protocol
- User-friendly LED status indicators

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TECHNOLOGY

Standard	IEEE 802.11 b/g/n/ac
Channel Bandwidth	20/40/80 MHz
Frequency	2.4 GHz and 5 GHz dual-band
MIMO	2x2
Peak Rate	802.11b: 11 Mbps 802.11g: 54 Mbps 802.11n: 300 Mbps 802.11ac: 866 Mbps
Modulation	DSSS/CCK, OFDM
Receive Sensitivity	-64 dBm at 65 Mbps, typical for 802.11n/ac -65 dBm at 54 Mbps, typical for 802.11g -76 dBm at 11 Mbps, typical for 802.11b
Max Output Power	14 ± 3 dBm
Antenna Type	Internal omni, 2T2R
Antenna Gain	3 dBi to 5 dBi
Active Users	32

INTERFACE

WAN Port	1 RJ-45 port 10/100/1000 auto-sensing, auto-MDX
LAN Port	2 RJ-45 port 10/100/1000 auto-sensing, auto-MDX
Protocols Used	IPv4/IPv6, UDP, TCP, IP, ICMP, HTTPS, SSH, TELNET, TR-069
Network Management	Web GUI, ACS, OMC
VLAN	802.1Q

FEATURES

Network Mode	NAT
WLAN	MSSID isolation
VPN	L2TP, GRE, PPTP, L2 VxLAN, OpenVPN
NAT	Port forwarding, DMZ, ALG
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/back up config files • Firmware upgrade locally or OTA

PHYSICAL

LED Indicators	Power, WLAN, SYS, LTE Signal
Power Switch	On/Off
Restore Button	Press for ten seconds to restore the CPE to its factory settings
Temperature	• Operating Temperature: 14°F to 113°F /-10°C to 45°C • Storage Temperature: -4°F to 158°F / -20°C to 70°C
Humidity	5% to 95% RH
Power Consumption	< 10 W
PSE Capability	Support Passive PSE (1, 2+, 3, 6-) or (4, 5+, 7, 8-) 24 VDC 0.5 A
Power Supply	DC Adaptor: • INPUT: 100 VAC to 240 VAC • OUTPUT: 12 VDC 1 A
Weight	About 11.4 oz/323 g
Dimensions	6.9 x 5.8 x 7.2 inches 174 x 147 x 182 millimeters

MODEL NUMBER

EP3011	PoE Wi-Fi Router – IEEE 802.11b/g/n/ac Wi-Fi, 2.4/5 GHz dual-band with PoE output • FCC certification: 2AG32EP3011 • IC certification: 20982-EP3011