SNAP-PoE

Datasheet

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 the operations and maintenance center (OMC).

The product comes with a standard one-year warranty; an extended warranty is available.

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

- Support OMC management app support

- Supports TR069 network management 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: 300Mbps 802.11ac: 866Mbps
Modulation	DSSS/CCK, OFDM
Receive Sensitivity	-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	3 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, TR069
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, trace route
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 10 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%~95%
Power Consumption	< 10W
PSE Capability	Support Passive PSE (1,2 +;3,6 -or 4,5 +;7, 8-) 24VDC 0.5A
Power Supply	DC Adaptor: • INPUT 100-240VAC • OUTPUT 12VDC 1A
Weight	About 11.4oz / 323g
Dimensions	6.9 x 5.8 x 7.2 inches / 174 x 147 x 182 millimeters

GLOBAL PART NUMBERS

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

* Planned for future release