

SNAP PoE+ Router



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 LTE network.

The SNAP router supports 2.4 GHz and 5 GHz Wi-Fi, may be used with the Atom 14 or 19.5 UE, and is managed through the Baicells CloudCore Operations Management Console (OMC).

FEATURES

- 1000 Mbps WAN with PoE output
- 1000 Mbps LAN port
- Standard IEEE 802.11b/g/n/ac Wi-Fi operating at dual bands 2.4 GHz and 5 GHz
- Supports TR-069 network management protocol
- Easy local GUI and CloudCore OMC management
- User-friendly LED 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	Tactile button – Press for at least 10 seconds to restore the router to its factory settings
LED Indicators	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
TXRX	2T2R
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	-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
Antenna Gain	5 dBi
Active Users	32

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 NUMBERS

IDODWA-1	PoE Router, 802.11b/g/n/ac, 24V PoE, 2.4 GHz and 5 GHz
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SOFTWARE SPECIFICATIONS

Network Mode	NAT or Bridge
IP Protocol	IPv4/IPv6
SIM	PIN management, SIM lock
Network Connection Management	Auto / 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 Management	TR069
Diagnostics	TCP dump, Ping, Trace route
Statistics	LTE status; connection, system up time; device status; DHCP client list; Wi-Fi station list; LTE & firewall status
Maintenance	Date and time setting Reboot Restore factory settings Restore / back up configuration files Firmware upgrade locally or OTA
System Logs	Operating Run-time Filter / Select / Display / Export
Antenna Selection	N/A