

# WiFi6 MESH ROUTER

Datasheet

**Baicells**  
Connect More with Less



## INTRODUCTION

The Baicells router is an on-premise Wi-Fi 6 access point that provides comprehensive routing capabilities to multiple users accessing the Internet through Baicells Simple Network Access Point (SNAP) Power over Ethernet (PoE) router.

By easy-steps operation, a mesh network can be set up to cover the whole house with reliable and high-speed Wi-Fi.

The Wi-Fi 6 router supports 2.4 GHz and 5 GHz Wi-Fi standard.

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 802.11a/b/g/n/ac/ax Wi-Fi operating in dual-band (2.4 GHz and 5 GHz) mode
- 574 Mbps at 2.4 GHz, and 1.2 Gbps at 5GHz as peak rates.
- 1 Gigabit WAN/LAN port and 3 Gigabit LAN ports
- Easy Mesh function
- Wireless access with Baicells SNAP
- User-friendly LED status indicators

## TECHNOLOGY

Standard	IEEE 802.11 a/b/g/n/ac/ax
Channel Bandwidth	20 MHz, 40 MHz, 80 MHz
Frequency	2.4 GHz and 5 GHz dual-band support
MIMO	2x2
Peak Rate	802.11b: 11Mbps 802.11g: 54Mbps, 802.11n: 300Mbps, 802.11ac: 866Mbps 802.11ax 5G: 1200Mbps 802.11ax 2.4G: 574Mbps
Modulation	DSSS, CCK, OFDM, MIMO-OFDM
Sensitivity	<ul style="list-style-type: none"><li>802.11b/g: -91dBm @ 1Mbps, -90dBm @ 5Mbps, -87dBm @ 11Mbps</li><li>802.11a: -89dBm @ 6Mbps, -82dBm @ 24Mbps, -78dBm @ 36Mbps, -72dBm @ 54Mbps</li><li>802.11n: -85dBm @ MCS0), -67dBm @ MCS7)</li><li>802.11ac: 20MHz: -85dBm (MCS0), -60dBm (MCS9)</li><li>802.11ac: 40MHz: -82dBm (MCS0), -57dBm (MCS9)</li><li>802.11ac: 80MHz: -79dBm (MCS0), -53dBm (MCS9)</li><li>802.11ax: HE80: -79dBm (MCS0), -53dBm (MCS9), -53dBm (MCS11)</li></ul>
Max Output Power	24 dBm
Antenna Type	Internal omni, 2T2R
Antenna Gain	5 dBi (for 2.4 & 5 GHz)
Active Users	128

## INTERFACE

WAN Port	1 RJ-45 port 10/100/1000 auto-sensing, auto-MDX
LAN Port	3 RJ-45 port 10/100/1000 auto-sensing, auto-MDX
Protocols Used	IPv4/IPV6, UDP, TCP, IP, ICMP, HTTPS
Network Management	Web GUI
VLAN	802.1Q

## FEATURES

Network Mode	NAT, Bridge or Wireless Relay
IP Protocol	IPv4/IPv6
Network Connection	DHCP, Static
WLAN	WPS, Wireless Roaming, 5G Priority
Firewall	ACL, URL, MAC, Schedule
Network Mgmt.	WebUI
Diagnostics	Ping, Traceroute, DNS lookup
Statistics	<ul style="list-style-type: none"><li>• RAM utilization</li><li>• Online user</li><li>• Device running time</li><li>• SSID configuration</li><li>• Port status</li></ul>
Maintenance	<ul style="list-style-type: none"><li>• System time</li><li>• Login management</li><li>• Configuration management</li><li>• LED setting</li><li>• System upgrade</li><li>• Reboot</li></ul>
System Logs	Device status, client status, configuration change, user login
Network Mode	NAT, Bridge or Wireless Relay

## PHYSICAL

LED Indicators	Power, WLAN, LAN, WIFI, WPS
Power Switch	On/Off
Restore Button	Press for 5 seconds to restore the CPE to its factory settings
WPS Button	Short press 2 seconds open WPS
Temperature	<ul style="list-style-type: none"><li>• Operating Temperature: 23°F to 113°F /-5°C to 45°C</li><li>• Storage Temperature: -40°F to 158°F / -40°C to 70°C</li></ul>
Humidity	5%~95%
Power Consumption	<10 W
Power Supply	With DC Adaptor:

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	<ul style="list-style-type: none"><li>• INPUT 100-240VAC</li><li>• OUTPUT 12VDC 1A</li></ul>
Weight	About 14.1oz / 400g
Dimensions	4.5 x 4.3 x 4.3 inches / 114 x 110 x 110 millimeters

## GLOBAL PART NUMBERS

ER2820	Wi-Fi 6 Router - IEEE 802.11a/b/g/n/ac/ax Wi-Fi, 2.4/5 GHz dual-band, mesh network <ul style="list-style-type: none"><li>• FCC certification: 2AG32ER2820</li><li>• IC certification: 20982-ER2820</li></ul>
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\* Planned for future release