

Wi-Fi 6 Mesh Network Router



INTRODUCTION

The Baicells Wi-Fi 6 Mesh Network Router is an on-premise access point that provides comprehensive routing capabilities to multiple users accessing the Internet. In a few easy steps, a mesh network can be set up to cover the whole house with reliable, high-speed Wi-Fi.

The Wi-Fi 6 router supports 2.4 GHz and 5 GHz Wi-Fi standards that can be managed through the Operations Management Console (OMC).

The product comes with a standard one-year warranty; an extended warranty is available. Contact sales_na@baicells.com for information.

FEATURES

Note: Features may 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 5 GHz as peak rates.
- 1 Gigabit WAN/LAN port and 3 Gigabit LAN ports
- Easy Mesh function
- Supports OMC management by TR-069 protocol
- User-friendly LED status indicators

BASIC SPECIFICATIONS

WAN Port	1 * 10/100/1000M
LAN Port	3 * 10/100/1000M
Power Supply	Input: 100 V-240 VAC Output: 12V1A
Power Switch	On/Off
Reset Button	Press for 5 seconds to restore the router to its factory settings
WPS Button	Short press 2 seconds open WPS
LEDs	Power/WAN/LAN/WIFI/WPS
Dimensions H/W/D	4.5 x 4.3 x 4.3 inches 114 x 110 x 110 millimeters
Weight	14.1 ounces/400 grams

Wi-Fi SPECIFICATIONS

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

SOFTWARE SPECIFICATIONS

Network Mode	NAT, Bridge or Wireless Relay
IP Protocol	IPv4/IPv6
Network Connection	DHCP, Static
WLAN	WPS, Wireless Roaming, 5G Priority
VPN	N/A
NAT	Basic NAT
Firewall	ACL, URL, MAC, Schedule
Network Management	WebUI, TR-069*
Diagnostics	Ping, Traceroute, DNS lookup

Statistics	<ul style="list-style-type: none"> • RAM utilization • Online user • Device running time • SSID configuration • Port status
Maintenance	<ul style="list-style-type: none"> • System time • Login management • Configuration management • LED setting • System upgrade • Reboot
System Logs	Device status, client status, configuration change, user login
Antenna Selection	N/A

*Future software release

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	23°F to 113°F / -5°C to 45°C
Storage Temperature	-40°F to 158°F / -40°C to 70°C
Operating Humidity	5% to 95% RH
IP Protection Rating	IP41

GLOBAL PART NUMBER

ER2820	<p>Wi-Fi 6 Router - IEEE 802.11a/b/g/n/ac/ax Wi-Fi, 2.4/5 GHz dual-band, mesh network</p> <ul style="list-style-type: none"> • FCC certification: 2AG32ER2820 • IC certification: TBD
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