

# **RG-RAP73HD**

## **Datasheet**

### **RG-RAP73HD**

Tri-Radio Wi-Fi 7 BE19000 Ceiling Access Point

Datasheet

V1.0

Ruijie Networks Co, Ltd.

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## Change History

Date	Version	Change History	Revised By
May 18, 2023	V0.9	Initial version	Small and Medium-sized Business Division: Guo Jiejing

## 1. Product Appearance





## 2. Product Overview

The RG-RAP73HD is a ceiling-mount tri-radio Wi-Fi 7 access point (AP) which provides a data rate of up to 19,000 Mbps. The AP is launched by Ruijie Reyee for large- and medium-sized indoor scenarios. The AP adopts either IEEE 802.3at PoE power supply or local power supply using adapters. Compliant with the IEEE 802.11a/b/g/n/ac/ax/be standard, the AP can work in the 2.4 GHz, 5 GHz and 6 GHz frequency bands at the same time. The AP delivers a combined data rate of up to 18.671 Gbps, with up to 1.376 Gbps in the 2.4 GHz band, 5.765 Gbps in the 5 GHz band, and 11.530 Gbps in the 6 GHz band. The AP provides a 10GE Ethernet port, one 10GE optical port, and one 1000 Mbps Ethernet port, to meet the requirements of both indoor Wi-Fi coverage and various service networking.

## 2. Technical Specifications

Basic Feature	RAP73HD
Wi-Fi Standards	Wi-Fi7 (IEEE 802.11be)
MIMO	2.4 GHz, 4x4 MIMO 5 GHz, 4x4 MIMO 6 GHz, 4x4 MIMO
Max. Wi-Fi Speed	2.4 GHz: 1376Mbps 5 GHz: 5765Mbps 6 GHz: 11530Mbps

Antenna	14 (2.4G 4*4、5G 4*5、6G 4*5)
Antenna Type	Planar inverted-F (PIFA) antennas Antenna gain: 2.4 GHz: 4 dBi 5 GHz: 6 dBi 6 GHz: 6 dBi
Max. Transmit Power	CE EIRP: 2.4 GHz to 2.4835 GHz: 20 dBm 5.150 GHz to 5.350 GHz: 23 dBm 5.470 GHz to 5.725 GHz: 30 dBm 5.925 GHz to 6.425 GHz: 23 dBm Note: The transmit power is country-specific.
Service Port	1 x 100/1000/2.5G/5G/10GBase-T Ethernet port, PoE-capable 1 x 10/100/1000Base-T Ethernet port 1 x 10GBase-X SFP port (The optical module needs to be purchased separately.) Note: The access point itself does not transmit optical signals. An optical module must be installed on the access point to convert optical signals into electrical signals.
Max. Clients	512(2.4G+5G)+512(6G)=1024
Recommended Clients	NA
Max. SSIDs	8
Recommended Wi-Fi Coverage Radius	2.4GHz: 40 meters 5GHz: 70 meters 6GHz: 70 meters The Wi-Fi coverage is related to the installation environment of the access point.
Max. Wi-Fi Coverage Radius	Max:100 meters
<b>Software Feature</b>	
<b>WLAN Basic Features</b>	
Power Adjustment	Configurable in increments of 1 dBm High(100%), Medium(75%), Low(50%), Lower(25%) Support
Roaming Auto-Optimization	Support
Layer2 Roaming	Support
Layer3 Roaming	Support
OFDMA Subcarrier	Support
OFDMA, Multiple Access	Support
Target wake time (TWT)*	Support
WMM	Support
Radar Signal Detection and Frequency Hopping (DFS)	Support
<b>WLAN Security</b>	

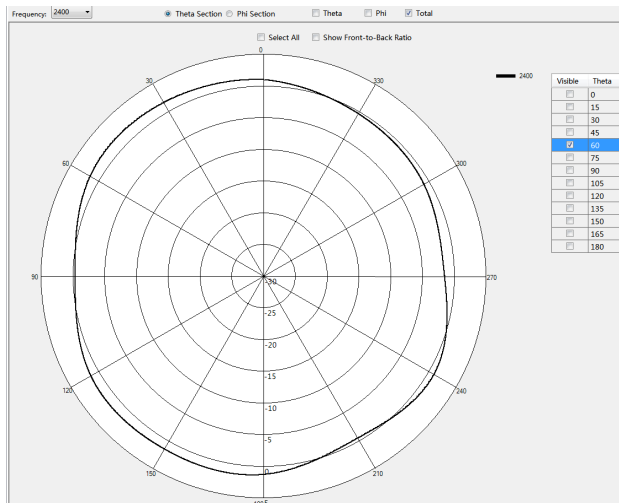
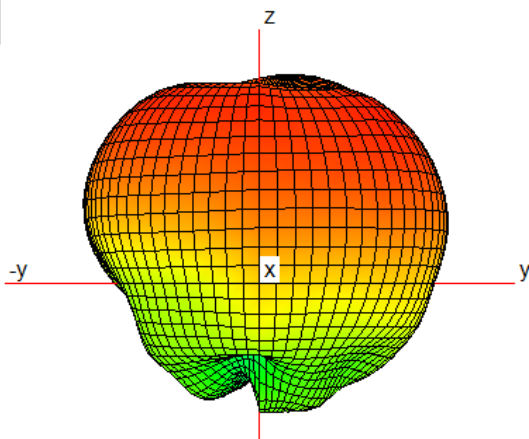
Wi-Fi Password	16 位
Security Mode	WPA-PSK, WPA2-PSK, WPA/WPA2-PSK; WPA3-SAE/WPA2-PSK
Static Whitelist	Support
Static Blacklist	Support
Enhanced User Experience	
Wi-Fi Optimization	Support
STA Limit	SSID-based STA limit , radio-based STA limit
Removing Low-RSSI STAs	Support
Adjusting Sending Rate of Beacon and Probe Response	Support
Syslog Recording Why Users Lose Connection	×
Auto Channel and Power Adjustment on Cloud	Support
RSSI Threshold for STA Access	Support
Load Balancing	×
<b>Networks</b>	
Network Access Mode	PPPoE Client DHCP Client Static IP
Avoidance of WAN IP Address Conflicts	Support
VLAN	Port-based VLAN 802.1Q VLAN
DHCP Server	×
<b>System</b>	
Cloud Management	Support
APP Management	Support
APP Upgrade	Support
APP Restart	Support
Scheduled Restart	×
Default Access/Password	192.168.110.1 No Password Required by Default
Local Upgrade	Support
Online Upgrade	Support

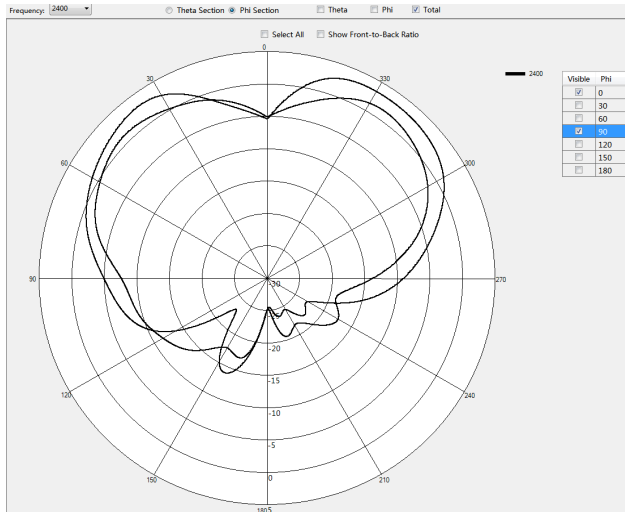
Backup	Support
Factory Reset	Support
Language	Chinese English Vietnamese Indonesian Thai Arabic Traditional Chinese Spanish Russian
System Log	Support
Diagnostics	Support
Network Check	Support
<b>Physical</b>	
Status LED	One LED (Blue)
Buttons	1×Reset button
Dimensions (W x D x H)	258 mm × 258 mm × 59.5mm (10.16 in. x 10.16 in. x 2.20 in., without the mounting bracket)
Weight	≤ 2.0 kg (4.41 lbs., without the mounting bracket)
DC Port Dimensions	Outer Diameter: 5.5 mm Inner Diameter: 2.1 mm Length: 10 mm
Installation	Ceiling-Mountable
Mounting Bracket Dimensions (W × D × H)	120 mm x 98 mm x 12mm(4.72 in. x 3.86 in. x 0.47 in.)
Mounting Hole Pattern	70mm(2.76 in.)
Mounting Hole Diameter	6.5 mm(1.72 in.)
Power Supplies	IEEE 802.3af/at/bt PoE DC 48V/1.25A
Max. Power Consumption	60 W
PoE Power Budget	60W
<b>Environmental</b>	
Temperature	Working temperature: 0° C to 40° C (32° F to 104° F)
	Storage temperature: -40° C to +70° C (-40° F to +158° F)

Operating Humidity	Working humidity: 5% RH to 95% RH (non-condensing)
Storage Humidity	Storage humidity: 5% RH to 95% RH (non-condensing)
IP(Ingress Protection)	IP41
Port Surge	Common mode:2 kV differential mode: 1kV
MTBF	>400000H

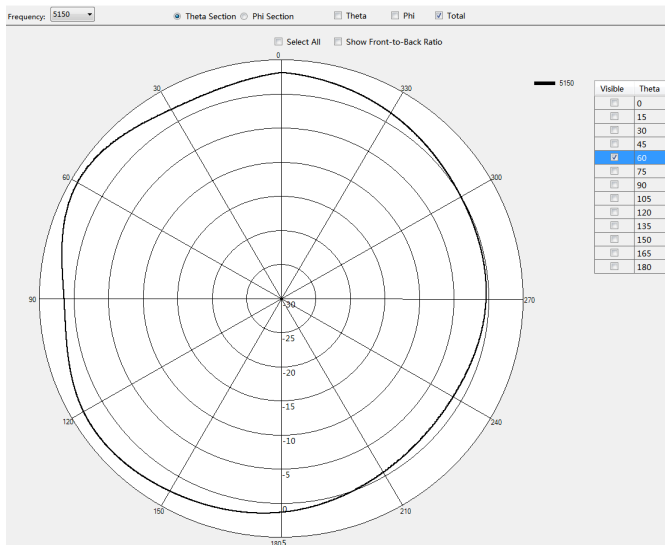
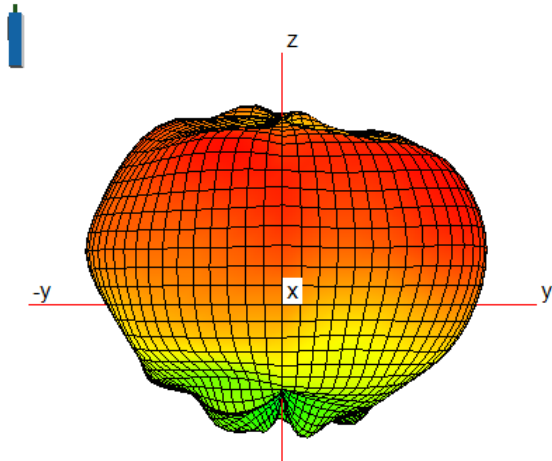
## 4. Antenna Pattern

### 2.4 GHz Antenna Pattern

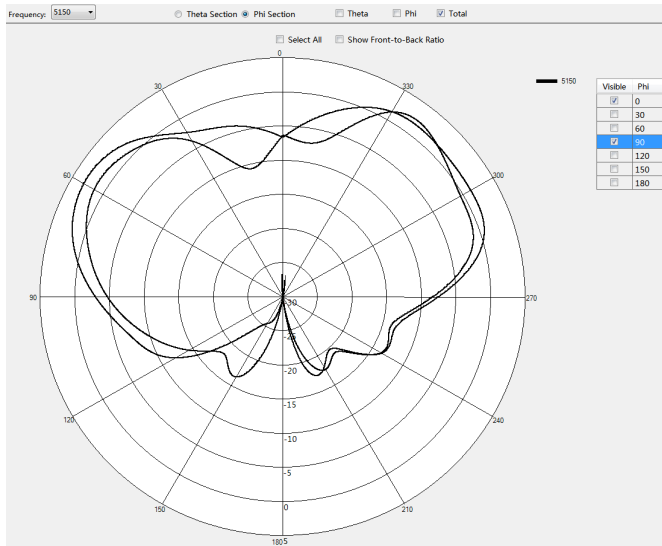




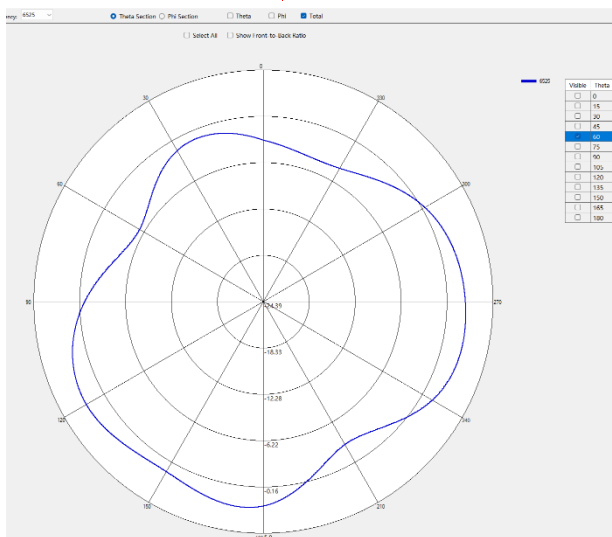
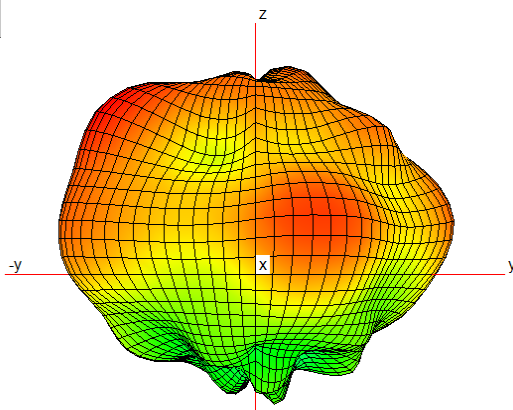
## 5 GHz Antenna Pattern

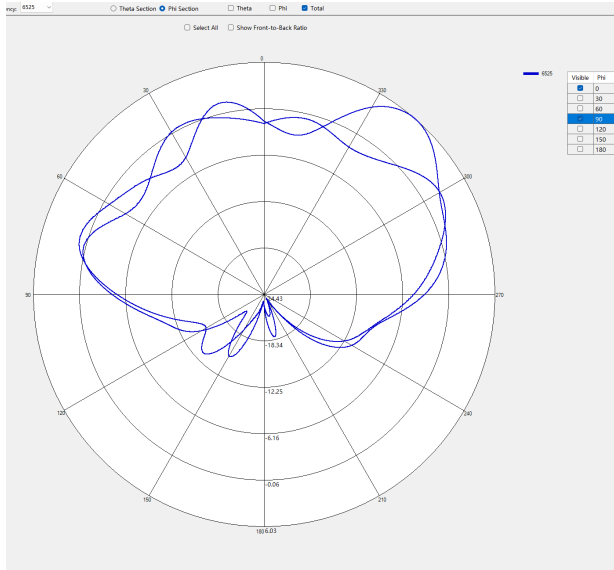






## 6 GHz Antenna Pattern





## 5. Ordering Information

Model	Description
<b>RG-RAP73HD</b>	<p>BE19000 Wi-Fi 7 dual-band Gigabit indoor Ceiling AP</p> <p>Specifications:</p> <ul style="list-style-type: none"> <li>Built-in omnidirectional antennas, 2.4GHz/5GHz/6GHz Tri-radio, 802.11a/b/g/n/ac/ax/be protocol;</li> <li>1x10/100/1000/10G Base-T port</li> <li>1x10/100/1000 Base-T port</li> <li>1x10GBase-X SFP+ port</li> </ul> <p>IP41</p> <p>Support AP and routing mode, layer 2 and layer 3 roaming. Ruyee unified networking and Ruijie Cloud app management. Support 802.3bt PoE and local power supply, DC 48V/1.25A</p> <p>max power &lt;60W. The power supply output should be higher than AP max power consumption.</p>

