



# Wi-Fi CERTIFIED™ Certificate



This certificate lists the features that have successfully completed Wi-Fi Alliance interoperability testing. Learn more: [www.wi-fi.org/certification/programs](http://www.wi-fi.org/certification/programs)

**Certification ID: WFA134039**

## Product Info

|                              |                 |
|------------------------------|-----------------|
| <b>Date of Certification</b> | January 7, 2025 |
| <b>Company</b>               | BLUEBIRD        |
| <b>Product Name</b>          | S20             |
| <b>Product Model Variant</b> | S20             |
| <b>Model Number</b>          | S20             |
| <b>Category</b>              | Phones          |
| <b>Sub-category</b>          | Smartphone      |

## Summary of Certifications

| <b>CLASSIFICATION</b>              | <b>CERTIFICATION</b>  |
|------------------------------------|---|
| <b>Applications &amp; Services</b> | Voice-Enterprise  |
| <b>Connectivity</b>                | 2.4 GHz Spectrum Capabilities<br>5 GHz Spectrum Capabilities<br>6 GHz Spectrum Capabilities<br>Wi-Fi CERTIFIED 6® Release 2<br>Wi-Fi CERTIFIED™ a<br>Wi-Fi CERTIFIED™ ac<br>Wi-Fi CERTIFIED™ b<br>Wi-Fi CERTIFIED™ g<br>Wi-Fi CERTIFIED™ n<br>Wi-Fi Direct®<br>Wi-Fi Enhanced Open™ 2021-01 |
| <b>Optimization</b>                | WMM®<br>WMM®-Admission Control<br>WMM®-Power Save<br>Wi-Fi Agile Multiband™<br>Wi-Fi Optimized Connectivity™ 2020<br>Wi-Fi QoS Management™  |
| <b>Security</b>                    | Protected Management Frames<br>WPA2™-Enterprise 2018-04   |



# Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA134039



## Summary of Certifications (continued)

Page 2 of 5

| CLASSIFICATION                 | CERTIFICATION  |
|--------------------------------|--|
| Security                       | WPA2™-Personal 2021-01<br>WPA3™-Enterprise 2022-12<br>WPA3™-Personal 2022-06 |
| Spectrum & Regulatory Features | Spectrum & Regulatory  |



# Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA134039



Role: Station

Page 3 of 5

## Wi-Fi Components

### Wi-Fi Component Operating System

Android 12

### Wi-Fi Component Firmware

SW:2.0.8.30J, FW:1.1.2.0.526.0

### RF Architecture

| Bands Supported | Transmit (Tx) | Receive (Rx) |
|-----------------|---------------|--------------|
| 2.4 GHz         | 2             | 2            |
| 5 GHz           | 2             | 2            |
| 6 GHz           | 2             | 2            |

## Certifications

### 2.4 GHz Spectrum Capabilities

20 MHz Channel Width in 2.4 GHz  
40 MHz Channel Width in 2.4 GHz

### 5 GHz Spectrum Capabilities

20 MHz Channel Width in 5 GHz  
40 MHz Channel Width in 5 GHz  
80 MHz Channel Width in 5 GHz  
160 MHz Channel Width in 5 GHz

### 6 GHz Spectrum Capabilities

20 MHz Channel Width in 6 GHz  
40 MHz Channel Width in 6 GHz  
80 MHz Channel Width in 6 GHz  
160 MHz Channel Width in 6 GHz

### Protected Management Frames

### Spectrum & Regulatory

### Spectrum & Regulatory (continued)

802.11h

### Voice-Enterprise

### WMM®

### WMM®-Admission Control

### WMM®-Power Save

Legacy Power Save  
Unschedule auto PS

### WPA2™-Enterprise 2018-04

EAP methods  
EAP AKA  
EAP AKA Prime  
EAP SIM  
EAP TLS  
EAP TTLS  
PEAPv0



# Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA134039



Role: Station

Page 4 of 5

## WPA2™-Enterprise 2018-04 (continued)

PEAPv1

## WPA2™-Personal 2021-01

## WPA3™-Enterprise 2022-12

EAP methods

- EAP AKA
- EAP AKA Prime
- EAP SIM
- EAP TLS
- EAP TTLS
- PEAPv0
- PEAPv1

192-bit security

- 192-bit security RSA 3K with the TLS\_ECDHE\_RSA\_WITH\_AES\_256\_GCM\_SHA384 cipher suite

Server Certificate Validation

## WPA3™-Personal 2022-06

## Wi-Fi Agile Multiband™

- ANQP
- ANQP-based Neighbor report
- Beacon Report Measurement Active Mode
- Beacon Report Measurement Passive Mode
- BTM Query
- Cellular Data capable
- Fast Transition OTA on WPA2-Personal

## Wi-Fi CERTIFIED 6® Release 2

A-MPDU with A-MSDU

## Wi-Fi CERTIFIED 6® Release 2 (continued)

- Beamforming sounding
- BSRP Trigger frame
- Compressed Block Ack Rx (buffer size 256)
- DL MU-MIMO
- DL MU PPDU multi-tone
- HE NDP
- LDPC Tx
- LDPC Rx
- Individual Target Wake Time
- MCS 10-11 Rx
- MCS 10-11 Tx
- MCS 8-9 Rx
- MCS 8-9 Tx
- MU EDCA Parameter Set element
- MU-BAR Trigger frame
- MU-RTS Trigger frame
- Operating mode control field
- Operating mode subfield in A-Control field
- Operating mode indication
- SU beamformee
- SU-MIMO
- UL OFDMA
- UL TB PPDU multi-tone
- Wi-Fi 6E
  - Multiple M-BSSID
- Wi-Fi 6 Release 2 features
  - M-BSSID control frames

## Wi-Fi CERTIFIED™ a

## Wi-Fi CERTIFIED™ ac

- Extended 5 GHz Channel Support
- RTS with BW Signaling
- A-MPDU with A-MSDU



# Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA134039



Role: Station

Page 5 of 5

## Wi-Fi CERTIFIED™ ac (continued)

DL MU-MIMO  
LDPC Rx  
MCS 8-9 Rx  
Short Guard Interval  
STBC  
LDPC Tx  
SU beamformee

## Wi-Fi QoS Management™ (continued)

Default DSCP to UP mapping  
DSCP QoS Map  
Mirrored Stream Classification Service  
MSCS setup at association

## Wi-Fi CERTIFIED™ b

## Wi-Fi CERTIFIED™ g

## Wi-Fi CERTIFIED™ n

A-MPDU Tx  
OBSS on Extension Channel  
Power Management  
Short Guard Interval  
STBC

## Wi-Fi Direct®

Wi-Fi Direct with WPA2

## Wi-Fi Enhanced Open™ 2021-01

## Wi-Fi Optimized Connectivity™ 2020

Active Scan  
Pushbutton  
Probe Deferral and Suppression

## Wi-Fi QoS Management™