



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

Certification ID: WFA120000

Product Info

Date of Certification November 8, 2022

Company Zebra Technologies

Product Name TC53

Product Model Variant 2022-11-09

Model Number TC53

Category Phones

Sub-category Phone, multi-mode (Wi-Fi and other)

Summary of Certifications

CLASSIFICATION CERTIFICATION

Applications & Services Voice-Enterprise

Connectivity 2.4 GHz Spectrum Capabilities

5 GHz Spectrum Capabilities6 GHz Spectrum Capabilities

Wi-Fi CERTIFIED 6®
Wi-Fi CERTIFIED™ a
Wi-Fi CERTIFIED™ b
Wi-Fi CERTIFIED™ g
Wi-Fi CERTIFIED™ n

Wi-Fi Direct®

Wi-Fi Enhanced Open™ 2021-01

Optimization WMM®

WMM®-Admission Control

WMM®-Power Save Wi-Fi Agile Multiband™

Wi-Fi Optimized Connectivity™ 2020

Wi-Fi QoS Management™

Security Protected Management Frames

WPA2[™]-Enterprise 2018-04



Features

Wi-Fi CERTIFIED™ Certificate



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Summary of Certificat	tions (continued)	Page 2 of 5
CLASSIFICATION	CERTIFICATION	
Security	WPA2 [™] -Personal 2021-01 WPA3 [™] -Enterprise 2020-02 WPA3 [™] -Personal 2020-12	
Spectrum & Regulatory	Spectrum & Regulatory	





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Role: Station	Page 3 of 5			
Wi-Fi Components				
Wi-Fi Component Operating System	RF Architecture			
Android, version:11	Bands Supported	Transmit (Tx)	Receive (Rx)	
Wi-Fi Component Firmware 1.1.2.0.461.0	2.4 GHz	2	2	
1.1.2.0.401.0	5 GHz	2	2	
	6 GHz	2	2	
Certifications				

	6 GHz 2 2		
Certifications			
2.4 GHz Spectrum Capabilities	Voice-Enterprise		
20 MHz Channel Width in 2.4 GHz	WMM®		
5 GHz Spectrum Capabilities	WMM®-Admission Control		
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	WMM®-Power Save Legacy Power Save Unschedule auto PS		
6 GHz Spectrum Capabilities	WPA2™-Enterprise 2018-04		
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	EAP methods EAP TLS EAP TTLS PEAPv0 PEAPv1		
Protected Management Frames	WPA2™-Personal 2021-01		
Spectrum & Regulatory	WPA3™-Enterprise 2020-02		
802.11h	EAP methods		



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WPA3™-Enterprise 2020-02 (continued)

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

Fast Transition OTA on WPA3-Enterprise

Fast Transition OTA on WPA3-Enterprise transition mode

Fast Transition OTDS on WPA3-Enterprise

Server Certificate Validation

WPA3™-Personal 2020-12

Fast Transition OTA on WPA3-Personal

Fast Transition OTA on WPA3-Personal transition mode

Fast Transition OTDS on WPA3-Personal

Wi-Fi Agile Multiband™

ANQP

ANQP-based Neighbor report

Beacon Report Measurement Active Mode

Beacon Report Measurement Passive Mode

BTM Query

Fast Transition OTA on WPA2-Personal

Fast Transition OTA on WPA2-Enterprise

Wi-Fi CERTIFIED 6®

A-MPDU with A-MSDU

Beamforming sounding

BSRP Trigger frame

Compressed Block Ack Rx (buffer size 256)

Wi-Fi CERTIFIED 6® (continued)

Compressed Block Ack Tx (buffer size 256)

DL MU PPDU multi-tone

DL MU-MIMO

HE NDP

Individual Target Wake Time

LDPC Rx

LDPC Tx

MCS 8-9 Rx

MCS 8-9 Tx

MCS 10-11 Rx

MCS 10-11 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 CERTIFIED™ a

Wi-Fi CERTIFIED™ ac

Extended 5 GHz Channel Support

RTS with BW Signaling

A-MPDU with A-MSDU

DL MU-MIMO

LDPC Rx

MCS 8-9 Rx

Short Guard Interval





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Wi-Fi CERTIFIED™ ac (continued)	
STBC	
LDPC Tx	
SU beamformee	
Wi-Fi CERTIFIED™ b	
Wi-Fi CERTIFIED™ g	
Wi-Fi CERTIFIED™ n	
STBC	
A-MPDU Tx	
OBSS on Extension Channel	
Short Guard Interval	
Wi-Fi Direct®	
Wi-Fi Enhanced Open™ 2021-01	
Wi-Fi Optimized Connectivity™ 2020	
Active Scan	
Fast Transition OTA on WPA2-Enterprise	
Pushbutton	
Probe Deferral and Suppression	
i OoS Management™	