

# 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 ID: WFA129427**

## **Product Info**

Date of Certification January 5, 2024

**Company** TCL Communication Ltd.

Product Name T509K

Product Model Variant T509K

Model Number T509K

**Category** Phones

**Sub-category** Smartphone

# **Summary of Certifications**

CLASSIFICATION CERTIFICATION

Access Passpoint® Release 3

Wi-Fi Protected Setup™

Alternative topologies Wi-Fi Direct®

Network management WMM®

WMM®-Power Save

Security Protected Management Frames

WPA2<sup>™</sup>-Enterprise 2018-04 WPA2<sup>™</sup>-Personal 2021-01 WPA3<sup>™</sup>-Enterprise 2020-02 WPA3<sup>™</sup>-Personal 2022-06

Wi-Fi (MAC/PHY) 2.4 GHz Spectrum Capabilities

5 GHz Spectrum Capabilities

Spectrum & Regulatory Wi-Fi CERTIFIED™ a Wi-Fi CERTIFIED™ b Wi-Fi CERTIFIED™ g Wi-Fi CERTIFIED™ n



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# Role: Access Point Page 2 of 4

## Wi-Fi Components

## **Wi-Fi Component Operating System**

Android 13

## Wi-Fi Component Firmware

t-neptune-mp-soc1\_0e1-2015-CERVINO\_SOC1\_0\_E1\_ASIC-20220818200502

## **RF Architecture**

Bands Supported	Transmit (Tx)	Receive (Rx)
2.4 GHz	1	1
5 GHz	1	1

#### Certifications

#### 2.4 GHz Spectrum Capabilities

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

Short Guard Interval

Wi-Fi CERTIFIED™ ac (continued)

Wi-Fi CERTIFIED™ b Wi-Fi CERTIFIED™ g

# 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

# Wi-Fi CERTIFIED™ n

OBSS on Extension Channel Short Guard Interval A-MPDU Tx

# **Protected Management Frames**

**WMM®** 

WPA2™-Personal 2021-01

WPA3™-Personal 2022-06

Wi-Fi CERTIFIED™ a

Wi-Fi CERTIFIED™ ac

A-MPDU with A-MSDU MCS 8-9 Rx



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Role: Station Page 3 of 4

Wi	-Fi	Com	ponen	ts
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Wi-Fi Component Operating System

Android 13

Wi-Fi Component Firmware

t-neptune-mp-soc1\_0e1-2015-CERVINO\_SOC1\_0\_E1\_ASIC-20220818200502

## **RF Architecture**

Bands Supported	Transmit (Tx)	Receive (Rx)
2.4 GHz	1	1
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## **Certifications**

20 MHz Channel Width in 2.4 GHz 802.11h

#### 5 GHz Spectrum Capabilities WMM®

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

# WMM®-Power Save

Legacy Power Save Unschedule auto PS

## Passpoint® Release 3

Network Icon support

Online Sign Up and Policy provisioning

ANQP-element for OSU provider selection

Online Sign Up using single SSID

Venue Information

Terms and Conditions

Roaming Consortium Selection

#### WPA2™-Enterprise 2018-04

EAP methods

EAP AKA

**EAP AKA Prime** 

**EAP SIM** 

EAP TLS

**EAP TTLS** 

PEAPv0

PEAPv1

#### **Protected Management Frames**

Spectrum & Regulatory WPA2™-Personal 2021-01

WPA3<sup>™</sup>-Enterprise 2020-02



A-MPDU Tx HT Duplicate Mode

STBC

**OBSS** on Extension Channel

Power Management Short Guard Interval

# Wi-Fi CERTIFIED® Certificate

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**Role: Station** Page 4 of 4 WPA3™-Enterprise 2020-02 (continued) Wi-Fi Direct® EAP methods Wi-Fi Protected Setup™ EAP AKA **EAP AKA Prime** PIN **EAP SIM** Pushbutton **EAP TLS EAP TTLS** PEAPv0 PEAPv1 Server Certificate Validation WPA3™-Personal 2022-06 Wi-Fi CERTIFIED™ a Wi-Fi CERTIFIED™ ac MCS 8-9 Rx Short Guard Interval STBC SU beamformee Wi-Fi CERTIFIED™ b Wi-Fi CERTIFIED™ g Wi-Fi CERTIFIED™ n

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