



# 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: WFA130763**

## Product Info

<b>Date of Certification</b>	April 10, 2024
<b>Company</b>	Jiangsu Toppower Automotive Electronics Co., Ltd.
<b>Product Name</b>	UNIT ASSY ,TELEMATICS
<b>Product Model Variant</b>	HTB23-2
<b>Model Number</b>	HTB23-2
<b>Category</b>	Other
<b>Sub-category</b>	In-vehicle Network

## Summary of Certifications

CLASSIFICATION	CERTIFICATION
<b>Connectivity</b>	2.4 GHz Spectrum Capabilities 5 GHz Spectrum Capabilities Wi-Fi CERTIFIED™ a Wi-Fi CERTIFIED™ ac Wi-Fi CERTIFIED™ b Wi-Fi CERTIFIED™ g Wi-Fi CERTIFIED™ n
<b>Optimization</b>	WMM®
<b>Security</b>	Protected Management Frames WPA2™-Personal 2021-01 WPA3™-Personal 2022-06

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# Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA130763



Role: Access Point

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## Wi-Fi Components

### Wi-Fi Component Operating System

Android 9

### Wi-Fi Component Firmware

bdwlan30.bin

### RF Architecture

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

### 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  
LDPC Rx

### Wi-Fi CERTIFIED™ ac (continued)

LDPC Tx  
MCS 8-9 Rx  
Short Guard Interval  
STBC

### Wi-Fi CERTIFIED™ b

### Wi-Fi CERTIFIED™ g

### Wi-Fi CERTIFIED™ n

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

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Role: Station

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40 MHz Channel Width in 5 GHz  
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### Protected Management Frames

### WMM®

### WPA2™-Personal 2021-01

### WPA3™-Personal 2022-06

### Wi-Fi CERTIFIED™ a

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A-MPDU with A-MSDU  
LDPC Rx

### Wi-Fi CERTIFIED™ ac (continued)

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

### Wi-Fi CERTIFIED™ b

### Wi-Fi CERTIFIED™ g

### Wi-Fi CERTIFIED™ n

A-MPDU Tx  
OBSS on Extension Channel  
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