



# 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: WFA129508**

## Product Info

|                              |  |
|------------------------------|--|
| <b>Date of Certification</b> | January 19, 2024                       |
| <b>Company</b>               | Panasonic Automotive Systems Co., Ltd. |
| <b>Product Name</b>          | Car Audio System                       |
| <b>Product Model Variant</b> | Source (Updated WPA3R3+WPA2)           |
| <b>Model Number</b>          | CN-ST2DE7AEC                           |
| <b>Category</b>              | Other                                  |
| <b>Sub-category</b>          | In-vehicle Network                     |

## Summary of Certifications

| <b>CLASSIFICATION</b>                     | <b>CERTIFICATION</b>   |
|---|--|
| <b>Access</b>                             | Wi-Fi Protected Setup™   |
| <b>Applications &amp; Services</b>        | Miracast®  |
| <b>Connectivity</b>                       | 2.4 GHz Spectrum Capabilities<br>5 GHz Spectrum Capabilities<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® |
| <b>Optimization</b>                       | WMM®<br>WMM®-Power Save  |
| <b>Security</b>                           | Protected Management Frames<br>WPA2™-Personal 2021-01<br>WPA3™-Personal 2022-06  |
| <b>Spectrum &amp; Regulatory Features</b> | Spectrum & Regulatory  |



# Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA129508



Role: Access Point

Page 2 of 6

## Wi-Fi Components

### Wi-Fi Component Operating System

Linux 4.14.75

### Wi-Fi Component Firmware

17.68.1.p136

### RF Architecture

| Bands Supported | Transmit (Tx) | Receive (Rx) |
|-----------------|---------------|--------------|
| 2.4 GHz         | 1             | 1            |
| 5 GHz           | 2             | 2            |

## Certifications

### 2.4 GHz Spectrum Capabilities

20 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

### Spectrum & Regulatory

802.11d

### WMM®

### WMM®-Power Save

Legacy Power Save  
Unschedule auto PS

### WPA2™-Personal 2021-01

### WPA3™-Personal 2022-06

### Wi-Fi CERTIFIED™ a

### Wi-Fi CERTIFIED™ ac

A-MPDU with A-MSDU  
LDPC Rx  
LDPC Tx  
MCS 8-9 Rx  
Short Guard Interval  
STBC  
SU beamformer

### Wi-Fi CERTIFIED™ b

### Wi-Fi CERTIFIED™ g

### Wi-Fi CERTIFIED™ n

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



# Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA129508



Role: Access Point

Page 3 of 6

## Wi-Fi Protected Setup™

PIN

Pushbutton



# Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA129508



Role: Station

Page 4 of 6

## Wi-Fi Components

### Wi-Fi Component Operating System

Linux 4.14.75

### Wi-Fi Component Firmware

17.68.1.p136

### RF Architecture

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

### 2.4 GHz Spectrum Capabilities

20 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®

### WMM®-Power Save

Legacy Power Save

Unschedule auto PS

### WPA2™-Personal 2021-01

### WPA3™-Personal 2022-06

### Wi-Fi CERTIFIED™ a

### Wi-Fi CERTIFIED™ ac

A-MPDU with A-MSDU

LDPC Rx

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

HT Duplicate Mode

OBSS on Extension Channel

Power Management

Short Guard Interval

STBC

### Wi-Fi Direct®

### Wi-Fi Protected Setup™



# Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA129508



Role: Station

Page 5 of 6

## Wi-Fi Protected Setup™ (continued)

PIN

Pushbutton



# Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA129508



Role: Display

Page 6 of 6

## Wi-Fi Components

### Wi-Fi Component Operating System

Linux 4.14.75

### Wi-Fi Component Firmware

17.68.1.p136

### RF Architecture

| Bands Supported | Transmit (Tx) | Receive (Rx) |
|-----------------|---------------|--------------|
| 2.4 GHz         | 1             | 1            |
| 5 GHz           | 2             | 2            |

## Certifications

### Miracast®

HDCP Encryption