



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

Certification ID: WFA132462

Product Info

| Date of Certification | September 5, 2024 |
|-----------------------|--|
| Company | Panasonic Automotive Systems Co., Ltd. |
| Product Name | Car Audio System |
| Product Model Variant | Source (Updated WPA3R3+WPA2) |
| Model Number | CN-STAFS0AJ |
| Category | Other |
| Sub-category | In-vehicle Network |

Summary of Certifications

| CLASSIFICATION | CERTIFICATION |
|-----------------------------------|--|
| Access | Wi-Fi Protected Setup™ |
| Applications & Services | Miracast® |
| Connectivity | 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 Wi-Fi Direct® |
| Optimization | WMM® WMM®-Power Save |
| Security | Protected Management Frames WPA2™-Personal 2021-01 WPA3™-Personal 2022-06 |
| Spectrum & Regulatory Features | Spectrum & Regulatory |



Wi-Fi CERTIFIED[™] Certificate





| Wi-Fi Components RF Architecture Linux 4.14.75 Bands Supported Transmit (Tx) Receive (Rx) Wi-Fi Component Firmware 2.4 GHz 1 1 17.68.1.p136 SGHz 2 2 Certifications VIPA3™-Personal 2022-06 VIPA3™-Personal 2022-06 VIPA3™-Personal 2022-06 VIPAS™-Personal 2022-06 STEC Stoft Claurad Interval Stoft Claurad Inte | Role: Access Point | | P | age 2 of 6 | | |
|---|----------------------------------|---------------------|------------------------|--------------|--|--|
| Linux 4.14.75 Wi-Fi Component Firmware 17.68.1.p136 Earlier Component Firmware 17.68.1.p136 Earlier Certifications 2.4 GHz 1 1 5 GHz 2 2 2 Certifications 2.4 GHz Spectrum Capabilities 20 MHz Channel Width in 2.4 GHz Mi-Fi CERTIFIED TM a S GHz Spectrum Capabilities 20 MHz Channel Width in 5 GHz 20 MHz Channel Width in 5 GHz 40 MHz Channel Width in 5 GHz 80 MHZ Channel Midth in 5 GHZ 80 MHZ CHAN MA | Wi-Fi Components | | | | | |
| Wi-Fi Component Firmware 17.68.1.p136 Bands Supported Transmit (Tx) Receive (Rx) 2.4 GHz 1 1 1 5 GHz 2 2 Certifications WPA3™-Personal 2022-06 20 MHz Channel Width in 2.4 GHz Wi-Fi CERTIFIED™ a Sectrum Capabilities WI-Fi CERTIFIED™ ac Sectrum Capabilities WI-Fi CERTIFIED™ ac AMPDU with A-MSDU LDPC Tx 40 MHz Channel Width in 5 GHz 40 MHz Channel Width in 5 GHz AMPDU with A-MSDU LDPC Tx MCS & PRx Short Guard Interval STBC SU beamformer Solution for the box of the state st | Wi-Fi Component Operating System | RF Architecture | | | | |
| 17.68.1.p136 2.4 GHz 1 1 17.68.1.p136 5 GHz 2 2 Certifications 2.4 GHz 2 2 Certifications 2.4 GHz Spectrum Capabilities WPA3 [™] -Personal 2022-06 20 MHz Channel Width in 2.4 GHz Wi-Fi CERTIFIED [™] a S GHz Spectrum Capabilities 20 MHz Channel Width in 5 GHz 4.MPDU with A-MSDU LDPC Rx LDPC Rx BOLTUM & Regulatory Spectrum & Regulatory WI-Fi CERTIFIED [™] b Wi-Fi CERTIFIED [™] b WIM® WI-Fi CERTIFIED [™] b WIM® WIM® WIM® Legacy Power Save Unschedule auto PS So Extension Channel Short Guard Interval | Linux 4.14.75 | Bands Supported | Transmit (Tx) | Receive (Rx) | | |
| 17.68.1.p136 5 GHz 2 2 Certifications 2.4 GHz Spectrum Capabilities WPA3™-Personal 2022-06 20 MHz Channel Width in 2.4 GHz Wi-Fi CERTIFIED™ a S GHz Spectrum Capabilities 20 MHz Channel Width in 5 GHz AMPDU with A-MSDU 20 MHz Channel Width in 5 GHz AMPDU with A-MSDU 20 MHz Channel Width in 5 GHz AMPDU with A-MSDU 20 MHz Channel Width in 5 GHz AMPDU with A-MSDU 20 MHz Channel Width in 5 GHz AMPDU with A-MSDU 80 MHz Channel Width in 5 GHz Short Guard Interval 80 MHz Channel Width in 5 GHz StBC 80 MHz Channel Width in 5 GHz Wi-Fi CERTIFIED™ b 802.11d Wi-Fi CERTIFIED™ b 802.11d Wi-Fi CERTIFIED™ b 802.11d Wi-Fi CERTIFIED™ b WiM0 MWMO Minophanel Minoph | Wi-Fi Component Firmware | 2.4 GHz | 1 | 1 | | |
| Certifications 2.4 GHz Spectrum Capabilities WPA3 TM -Personal 2022-06 20 MHz Channel Width in 2.4 GHz Wi-Fi CERTIFIED TM a 5 GHz Spectrum Capabilities Wi-Fi CERTIFIED TM ac 20 MHz Channel Width in 5 GHz AMPDU with A-MSDU LDPC Rx LDPC Tx 40 MHz Channel Width in 5 GHz AMPDU with A-MSDU LDPC Rx LDPC Tx 90 MHz Channel Width in 5 GHz Short Guard Interval STBC 91 Protected Management Frames STBC 802.11d Wi-Fi CERTIFIED TM b W0HM® Wi-Fi CERTIFIED TM b W0HM® Wi-Fi CERTIFIED TM b W0HM® A-MPDU Tx Legacy Power Save Unschedule auto PS A-MPDU Tx Legacy Power Save Unschedule auto PS A-MPDU Tx | 17.68.1.p136 | 5 GHz | | | | |
| 2.4 GHz Spectrum Capabilities WPA3™-Personal 2022-06 20 MHz Channel Width in 2.4 GHz Wi-Fi CERTIFIED™ a 5 GHz Spectrum Capabilities Wi-Fi CERTIFIED™ ac 20 MHz Channel Width in 5 GHz A-MPDU with A-MSDU LDPC Rx LDPC Tx MCS 8-9 Rx 80 MHz Channel Width in 5 GHz A-MPDU with A-MSDU LDPC Rx LDPC Tx MCS 8-9 Rx 9 MHz Channel Width in 5 GHz Short Guard Interval STBC 80 2.11d Wi-Fi CERTIFIED™ b 802.11d Wi-Fi CERTIFIED™ b WIM® Wi-Fi CERTIFIED™ n WIM® A-MPDU Tx HT Duplicate Mode OBSS on Extension Channel Short Guard Interval | | 3 0112 | Z | 2 | | |
| 20 MHz Channel Width in 2.4 GHz Wi-Fi CERTIFIED™ a 5 GHz Spectrum Capabilities Wi-Fi CERTIFIED™ ac 20 MHz Channel Width in 5 GHz A-MPDU with A-MSDU 40 MHz Channel Width in 5 GHz LDPC Rx 80 MHz Channel Width in 5 GHz Mi-Fi CERTIFIED™ ac 80 MHz Channel Width in 5 GHz Short Guard Interval 80 MHz Channel Width in 5 GHz Short Guard Interval 80 MHz Channel Width in 5 GHz StBC 80 MHz Channel Width in 5 GHz Short Guard Interval 80 MHz Channel Width in 5 GHz StBC 80 Mut Channel Width in 5 GHz StBC 80 Line Channel Stort Guard Interval StBC 80 Line Channel Stort Guard Interval A-MPDU Tx Legacy Power Save Ht Duplicate Mode Unschedule auto PS | Certifications | | | | | |
| 5 GHz Spectrum Capabilities Wi-Fi CERTIFIED™ ac 20 MHz Channel Width in 5 GHz A-MPDU with A-MSDU 40 MHz Channel Width in 5 GHz LDPC Rx 80 MHz Channel Width in 5 GHz MCS 8-9 Rx 80 MHz Channel Width in 5 GHz Short Guard Interval 80 MHz Channel Width in 5 GHz STBC 80 MHz Channel Width in 5 GHz StBC 80 MHz Channel Width in 5 GHz Wi-Fi CERTIFIED™ b 802.11d Wi-Fi CERTIFIED™ b 802.11d Wi-Fi CERTIFIED™ b WMM@ Wi-Fi CERTIFIED™ g WIMM@-Power Save A-MPDU Tx Legacy Power Save A-MPDU Tx Unschedule auto PS GSS on Extension Channel Short Guard Interval Short Guard Interval | 2.4 GHz Spectrum Capabilities | WPA3™-Persona | WPA3™-Personal 2022-06 | | | |
| 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 B0 MHz Channel Width in 5 GHz B0 MHz Channel Width in 5 GHz Protected Management Frames STBC SU beamformer 802.11d Wi-Fi CERTIFIED TM b Wi-Fi CERTIFIED TM g Strip Construction Channel Short Guard Interval | 20 MHz Channel Width in 2.4 GHz | Wi-Fi CERTIFIED | Wi-Fi CERTIFIED™ a | | | |
| 20 MHz Channel Width in 5 GHz LDPC Rx 40 MHz Channel Width in 5 GHz LDPC Tx 80 MHz Channel Width in 5 GHz MCS 8-9 Rx Short Guard Interval StBC Spectrum & Regulatory StBC 802.11d Wi-Fi CERTIFIED™ b WMM® Wi-Fi CERTIFIED™ g WMM® Wi-Fi CERTIFIED™ n Legacy Power Save A-MPDU Tx Unschedule auto PS HT Duplicate Mode OBSS on Extension Channel Short Guard Interval | 5 GHz Spectrum Capabilities | Wi-Fi CERTIFIED™ ac | | | | |
| 40 MHz Channel Width in 5 GHz LDPC Rx 80 MHz Channel Width in 5 GHz LDPC Tx MCS 8-9 Rx Short Guard Interval Short Guard Interval STBC Su beamformer SU beamformer 802.11d Wi-Fi CERTIFIED™ b WMM@ Wi-Fi CERTIFIED™ g WMM@-Power Save A-MPDU Tx Legacy Power Save A-MPDU Tx Unschedule auto PS OBSS on Extension Channel Short Guard Interval Stort Guard Interval | 20 MHz Channel Width in 5 GHz | A-MPDU with A-MSD | J | | | |
| 80 MHz Channel Width in 5 GHz MCS 8-9 Rx Protected Management Frames STBC Spectrum & Regulatory SU beamformer 802.11d Wi-Fi CERTIFIED™ b 802.11d Wi-Fi CERTIFIED™ g WMM® Wi-Fi CERTIFIED™ n WMM®-Power Save A-MPDU Tx Legacy Power Save A-MPDU Tx Unschedule auto PS OBSS on Extension Channel Short Guard Interval Short Guard Interval | | | | | | |
| Protected Management Frames STBC Spectrum & Regulatory SU beamformer 802.11d Wi-Fi CERTIFIED™ b WMM® Wi-Fi CERTIFIED™ g WMM®-Power Save Wi-Fi CERTIFIED™ n Legacy Power Save A-MPDU Tx Unschedule auto PS A-MPDU Tx Stress on Extension Channel Short Guard Interval | 80 MHz Channel Width in 5 GHz | | | | | |
| Spectrum & Regulatory SU beamformer 802.11d Wi-Fi CERTIFIED™ b WMM® Wi-Fi CERTIFIED™ g WMM®-Power Save Wi-Fi CERTIFIED™ n Legacy Power Save A-MPDU Tx Unschedule auto PS OBSS on Extension Channel Short Guard Interval Stort Guard Interval | | | | | | |
| 802.11d Wi-Fi CERTIFIED™ b Wi-Fi CERTIFIED™ g Wi-Fi CERTIFIED™ n WMM®-Power Save Legacy Power Save Unschedule auto PS A-MPDU Tx HT Duplicate Mode OBSS on Extension Channel Short Guard Interval | Protected Management Frames | | | | | |
| 802.11d Wi-Fi CERTIFIED™ g WMM® Wi-Fi CERTIFIED™ n WMM®-Power Save A-MPDU Tx Legacy Power Save HT Duplicate Mode Unschedule auto PS OBSS on Extension Channel Short Guard Interval Short Guard Interval | Spectrum & Regulatory | | | | | |
| WMM® Wi-Fi CERTIFIED™ n WMM®-Power Save A-MPDU Tx Legacy Power Save HT Duplicate Mode Unschedule auto PS OBSS on Extension Channel Short Guard Interval Short Guard Interval | 802.11d | Wi-Fi CERTIFIED |)™ b | | | |
| WMM®-Power Save A-MPDU Tx Legacy Power Save HT Duplicate Mode Unschedule auto PS OBSS on Extension Channel Short Guard Interval Short Guard Interval | | Wi-Fi CERTIFIED |)™ g | | | |
| Legacy Power Save A-MPDU Tx Unschedule auto PS HT Duplicate Mode OBSS on Extension Channel Short Guard Interval | WMM® | Wi-Fi CERTIFIED |)™ n | | | |
| Legacy Power SaveHT Duplicate ModeUnschedule auto PSOBSS on Extension ChannelShort Guard Interval | WMM®-Power Save | | | | | |
| Unschedule auto PS OBSS on Extension Channel Short Guard Interval | Legacy Power Save | | | | | |
| | | OBSS on Extension C | hannel | | | |
| | | | | | | |



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Role: Access Point

Wi-Fi Protected Setup™

PIN

Pushbutton

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Role: Station

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| Wi-Fi Components | | | | |
|--|-----------------|---------------|--------------|--|
| Wi-Fi Component Operating System | RF Architecture | | | |
| Linux 4.14.75 | Bands Supported | Transmit (Tx) | Receive (Rx) | |
| Wi-Fi Component Firmware 17.68.1.p136 | 2.4 GHz | 1 | 1 | |
| 17.00.1.0100 | 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

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®

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Role: Station

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Wi-Fi Protected Setup™ (continued)

PIN

Pushbutton



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Role: Display Page 6 of 6 **Wi-Fi Components** Wi-Fi Component Operating System **RF** Architecture Linux 4.14.75 Bands Supported Transmit (Tx) Receive (Rx) Wi-Fi Component Firmware 2.4 GHz 1 1 17.68.1.p136 5 GHz 2 2 Certifications Miracast®

HDCP Encryption