



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

# Certification ID: WFA135061

### **Product Info**

Date of Certification	February 21, 2025	
Company	Panasonic Automotive Systems Co., Ltd.	
Product Name	Car Audio System	
Product Model Variant	Source	
Model Number	CN-ST2DM17X	
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



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Wi-Fi Component Operating SystemLinux 4.14.75RF ArchitectureBands SupportedTransmit (Tx)Receive (Rx)2.4 GHz112.4 GHz225 GHz22Certifications2.4 GHz Spectrum CapabilitiesWPA3 <sup>TM</sup> -Personal 2022-0620 MHz Channel Width in 2.4 GHzWi-Fi CERTIFIED <sup>TM</sup> a20 MHz Channel Width in 5 GHzMi-Fi CERTIFIED <sup>TM</sup> a20 MHz Channel Width in 5 GHzAMPDU with A-MSDU LDPC Rx LDPC Rx LDPC Rx	Role: Access Point	Pa	Page 2 of 6	
Linux 4.14.75Bands SupportedTransmit (Tx)Receive (Rx)Wi-Fi Component Firmware 17.68.113.p12.4 GHz115 GHz22Certifications2.4 GHz Spectrum CapabilitiesWPA3™-Personal 2022-0620 MHz Channel Width in 2.4 GHzWi-Fi CERTIFIED™ aWi-Fi CERTIFIED™ a20 MHz Channel Width in 5.6Hz 40 MHz Channel Width in 5 GHz20 MHz Channel Width in 5 GHz 40 MHz Channel Width in 5 GHzA-MPDU with A-MSDU LDPC Rx	Wi-Fi Components			
Wi-Fi Component Firmware 17.68.113.p1Bands SupportedTransmit (Tx)Receive (Rx)2.4 GHz115 GHz22Certifications2.4 GHz Spectrum CapabilitiesWPA3 <sup>™</sup> -Personal 2022-0620 MHz Channel Width in 2.4 GHzWi-Fi CERTIFIED <sup>™</sup> a5 GHz Spectrum CapabilitiesWi-Fi CERTIFIED <sup>™</sup> ac5 GHz Spectrum CapabilitiesMi-Fi CERTIFIED <sup>™</sup> ac20 MHz Channel Width in 5 GHz 40 MHz Channel Width in 5 GHzA-MPDU with A-MSDU LDPC Rx	Wi-Fi Component Operating System	RF Architecture		
17.68.113.p12.4 GHz115 GHz22Certifications2.4 GHz Spectrum CapabilitiesWPA3 <sup>™</sup> -Personal 2022-0620 MHz Channel Width in 2.4 GHzWi-Fi CERTIFIED <sup>™</sup> a5 GHz Spectrum CapabilitiesWi-Fi CERTIFIED <sup>™</sup> a20 MHz Channel Width in 5 GHzA-MPDU with A-MSDU LDPC Rx	Linux 4.14.75	Bands Supported	Transmit (Tx)	Receive (Rx)
17.68.113.p1   5 GHz   2   2     Certifications     2.4 GHz Spectrum Capabilities   WPA3 <sup>™</sup> -Personal 2022-06     20 MHz Channel Width in 2.4 GHz   Wi-Fi CERTIFIED <sup>™</sup> a     5 GHz Spectrum Capabilities   Wi-Fi CERTIFIED <sup>™</sup> a     20 MHz Channel Width in 5 GHz   A-MPDU with A-MSDU     20 MHz Channel Width in 5 GHz   A-MPDU with A-MSDU	Wi-Fi Component Firmware	2.4 GHz	1	1
Certifications     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     20 MHz Channel Width in 5 GHz   A-MPDU with A-MSDU	17.68.113.p1			
2.4 GHz Spectrum Capabilities   WPA3 <sup>™</sup> -Personal 2022-06     20 MHz Channel Width in 2.4 GHz   Wi-Fi CERTIFIED <sup>™</sup> a     5 GHz Spectrum Capabilities   Wi-Fi CERTIFIED <sup>™</sup> ac     20 MHz Channel Width in 5 GHz   A-MPDU with A-MSDU     40 MHz Channel Width in 5 GHz   LDPC Rx		5 0112	۷	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	Certifications			
Solution Solution   Solution	2.4 GHz Spectrum Capabilities	WPA3™-Personal 2022-06		
5 GHz Spectrum Capabilities     20 MHz Channel Width in 5 GHz     40 MHz Channel Width in 5 GHz	20 MHz Channel Width in 2.4 GHz	Wi-Fi CERTIFIED™ a		
20 MHz Channel Width in 5 GHz 40 MHz Channel Width in 5 GHz	5 GHz Spectrum Capabilities	Wi-Fi CERTIFIED™ ac		
40 MHz Channel Width in 5 GHz	20 MHz Channel Width in 5 GHz			
	40 MHz Channel Width in 5 GHz	LDPC Rx LDPC Tx		
80 MHz Channel Width in 5 GHz MCS 8-9 Rx	80 MHz Channel Width in 5 GHz			
Protected Management Frames STBC	Protected Management Frames			
SU beamformer		SU beamformer		
Spectrum & Regulatory	Spectrum & Regulatory			_
802.11d Wi-Fi CERTIFIED™ b	802.11d	Wi-Fi CERTIFIED™	″ b	
Wi-Fi CERTIFIED™ g		Wi-Fi CERTIFIED™	″ g	
WMM® Wi-Fi CERTIFIED™ n	WMM®	Wi-Fi CERTIFIED™	″ n	
WMM®-Power Save	WMM®-Power Save			_
Legacy Power Save HT Duplicate Mode	Legacy Power Save			
Unschedule auto PS OBSS on Extension Channel	Unschedule auto PS			
Short Guard Interval STBC				
WPA2™-Personal 2021-01	WPA2™-Personal 2021-01			



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### **Role: Access Point**

#### Wi-Fi Protected Setup™

PIN

Pushbutton

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#### **Role: Station** Page 4 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 17.68.113.p1 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<sup>™</sup>-Personal 2021-01

WPA3<sup>™</sup>-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™

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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 17.68.113.p1 5 GHz 2 2 Certifications Miracast®

HDCP Encryption