



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

Certification ID: WFA132451

Product Info

Date of Certification September 4, 2024

Company Fujitsu Client Computing Limited

Product Name M.2 Module /FCZSW11H85139-11be

Product Model Variant A Derivative of original model

Model Number FCZSW11H85139-11be

Category Computers & Accessories

Sub-category External Adapter

Summary of Certifications

Connectivity 2.4 GHz Spectrum Capabilities

5 GHz Spectrum Capabilities 6 GHz Spectrum Capabilities Wi-Fi CERTIFIED 6® Release 2

Wi-Fi CERTIFIED 7™
Wi-Fi CERTIFIED™ a
Wi-Fi CERTIFIED™ b
Wi-Fi CERTIFIED™ g
Wi-Fi CERTIFIED™ n

Wi-Fi Enhanced Open™ 2023-12

Optimization WMM®

WMM®-Power Save Wi-Fi Agile Multiband™ Wi-Fi QoS Management™

Security Protected Management Frames

WPA2[™]-Enterprise 2018-04 WPA2[™]-Personal 2021-01 WPA3[™]-Enterprise 2022-12 WPA3[™]-Personal 2023-12





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Summary of Certifications (continued)

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CLASSIFICATION

CERTIFICATION

Spectrum & Regulatory

Spectrum & Regulatory

Features



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Role: Station		P	age 3 of 5	
Wi-Fi Components				
Wi-Fi Component Operating System	RF Architecture			
Wi-Fi Component Firmware 23.70	Bands Supported	Transmit (Tx)	Receive (Rx)	
	2.4 GHz	2	2	
	5 GHz	2	2	
	6 GHz	2	2	
	0 0112	2	2	
Certifications				
2.4 GHz Spectrum Capabilities	Spectrum & Regulatory (continued)			
	Spoon am a riogo	natory (continue	u,	
20 MHz Channel Width in 2.4 GHz 40 MHz Channel Width in 2.4 GHz	802.11d 802.11h			
5 GHz Spectrum Capabilities	WMM®			
20 MHz Channel Width in 5 GHz	WMM®-Power Save			
40 MHz Channel Width in 5 GHz	William 1 Ower oa	Williams I circl cuve		
80 MHz Channel Width in 5 GHz 160 MHz Channel Width in 5 GHz	Legacy Power Save Unschedule auto PS			
100 MHZ OHAHHOI WAAH HI O OHZ	onschedule auto i o			
6 GHz Spectrum Capabilities	WPA2™-Enterpri	se 2018-04		
20 MHz Channel Width in 6 GHz	EAP methods			
40 MHz Channel Width in 6 GHz	EAP TLS			
80 MHz Channel Width in 6 GHz	EAP TTLS			
160 MHz Channel Width in 6 GHz 320 MHz channel width in 6 GHz	PEAPv0			
	WPA2™-Persona	2021 - 01		
Protected Management Frames	WI AZ -Fersolia			
Construer & Dougleton	WPA3™-Enterpris	se 2022-12		
Spectrum & Regulatory				



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WPA3™-Enterprise 2022-12 (continued)

EAP methods

EAP TLS

EAP TTLS

PEAPv0

192-bit security

192-bit security RSA 3K with the

TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384

cipher suite

Fast Transition OTA on WPA3-Enterprise

Server Certificate Validation

WPA3™-Personal 2023-12

AKM 24

Beacon Protection

Wi-Fi Agile Multiband™

Beacon Report Measurement Active Mode

Beacon Report Measurement Passive Mode

Fast Transition OTA on WPA2-Enterprise

Wi-Fi CERTIFIED 6® Release 2

A-MPDU with A-MSDU

Beamforming sounding

BSRP Trigger frame

Compressed Block Ack Rx (buffer size 256)

Compressed Block Ack Tx (buffer size 256)

DL MU-MIMO

DL MU PPDU multi-tone

HE NDP

LDPC Tx

LDPC Rx

Individual Target Wake Time

Wi-Fi CERTIFIED 6® Release 2 (continued)

MCS 10-11 Rx

MCS 10-11 Tx

MCS 8-9 Rx

MCS 8-9 Tx

MU EDCA Parameter Set element

MU-BAR Trigger frame

MU-RTS Trigger frame

Operating mode control field

Operating mode subfield in A-Control field

Operating mode indication

SU beamformee

SU-MIMO

UL OFDMA

UL TB PPDU multi-tone

Wi-Fi 6E

Multiple M-BSSID

Wi-Fi 6 Release 2 features

UL MU-MIMO

UL MU Control

Target Wake Time information frames

Broadcast Target Wake Time

Dynamic MU SMPS

M-BSSID control frames

Preamble Puncturing

Wi-Fi CERTIFIED 7™

Advertised TID-to-link mapping

A-MPDU with A-MSDU

Beamforming sounding

BSS critical update

Compressed Block Ack Rx (buffer size 256)

Compressed Block Ack Tx (buffer size 256)

Compressed Block Ack Rx (buffer size 512)

Compressed Block Ack Tx (buffer size 512)



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Wi-Fi CERTIFIED 7™ (continued)

DL MU-MIMO

Dynamic MU SMPS

EMLSR (Enhanced Multilink Single-Radio)

LDPC Rx

LDPC Tx

Load Balancing in MLO

MCS 8-9 Rx

MCS 8-9 Tx

MCS 10-11 Rx

MCS 10-11 Tx

MCS 12-13 Rx

MCS 12-13 Tx

Multi-link reconfiguration - AP removal

Multi-link reconfiguration - AP restart

Multi-RU

Operating mode indication

Operating mode indication for 320 MHz

Static puncturing

SU-MIMO

Triggered uplink access optimization

UL MU-MIMO

UL OFDMA

Wi-Fi CERTIFIED™ ac (continued)

SU beamformee

Wi-Fi CERTIFIED™ b

Wi-Fi CERTIFIED™ g

Wi-Fi CERTIFIED™ n

A-MPDU Tx

OBSS on Extension Channel

Power Management

Short Guard Interval

STBC

Wi-Fi Enhanced Open™ 2023-12

Wi-Fi QoS Management™

Default DSCP to UP mapping

DSCP QoS Map

Mirrored Stream Classification Service

Wi-Fi CERTIFIED™ a

Wi-Fi CERTIFIED™ ac

Extended 5 GHz Channel Support

A-MPDU with A-MSDU

DL MU-MIMO

LDPC Rx

MCS 8-9 Rx

Short Guard Interval

STBC

LDPC Tx