



# 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: WFA112498**

## Product Info

|                       |                              |
|-----------------------|------------------------------|
| Date of Certification | March 13, 2024               |
| Company               | Intel                        |
| Product Name          | Intel® Wi-Fi 6E AX211 (Gig+) |
| Product Model Variant | Win 11 - 22.70 - Mar24       |
| Model Number          | AX211                        |
| Category              | Computers & Accessories      |
| Sub-category          | Internal Adapter             |

## Summary of Certifications

| CLASSIFICATION | CERTIFICATION   |
|----------------|---|
| Access         | Wi-Fi Protected Setup™  |
| Connectivity   | 2.4 GHz Spectrum Capabilities<br>5 GHz Spectrum Capabilities<br>6 GHz Spectrum Capabilities<br>Wi-Fi CERTIFIED 6® Release 2<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®<br>Wi-Fi Enhanced Open™ 2021-01 |
| Optimization   | WMM®<br>WMM®-Power Save<br>Wi-Fi Agile Multiband™   |
| Security       | Protected Management Frames<br>WPA2™-Enterprise 2018-04<br>WPA2™-Personal 2021-01<br>WPA3™-Enterprise 2020-02<br>WPA3™-Personal 2020-12   |



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## Summary of Certifications (continued)

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### CLASSIFICATION

### CERTIFICATION

#### Security

WPA™-Enterprise  
WPA™-Personal

#### Spectrum & Regulatory Features

Spectrum & Regulatory



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Role: Station

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## Wi-Fi Components

### Wi-Fi Component Operating System

Windows 11

### Wi-Fi Component Firmware

22.70

### RF Architecture

| Bands Supported | Transmit (Tx) | Receive (Rx) |
|-----------------|---------------|--------------|
| 2.4 GHz         | 2             | 2            |
| 5 GHz           | 2             | 2            |
| 6 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  
160 MHz Channel Width in 5 GHz

### 6 GHz Spectrum Capabilities

20 MHz Channel Width in 6 GHz  
40 MHz Channel Width in 6 GHz  
80 MHz Channel Width in 6 GHz  
160 MHz Channel Width in 6 GHz

### Protected Management Frames

### Spectrum & Regulatory

### Spectrum & Regulatory (continued)

802.11h

### WMM®

### WMM®-Power Save

Legacy Power Save  
Unschedule auto PS

### WPA2™-Enterprise 2018-04

EAP methods  
EAP TLS  
EAP TTLS  
PEAPv0

### WPA2™-Personal 2021-01

### WPA3™-Enterprise 2020-02

EAP methods



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### WPA3™-Enterprise 2020-02 (continued)

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  
Fast Transition OTA on WPA3-Enterprise transition mode  
Server Certificate Validation

### WPA3™-Personal 2020-12

Beacon Protection

### WPA™-Enterprise

### WPA™-Personal

### 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

### Wi-Fi CERTIFIED 6® Release 2 (continued)

LDPC Tx  
LDPC Rx  
Individual Target Wake Time  
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  
OM Control field Tx  
OM subfield in A-Control field  
Operating Mode indication  
SU beamformee  
SU-MIMO  
UL OFDMA  
UL TB PPDU multi-tone  
Wi-Fi 6E  
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™ a

### Wi-Fi CERTIFIED™ ac

Extended 5 GHz Channel Support  
A-MPDU with A-MSDU  
DL MU-MIMO  
LDPC Rx



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## 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  
Power Management  
Short Guard Interval  
STBC

## Wi-Fi Direct®

## Wi-Fi Enhanced Open™ 2021-01

## Wi-Fi Protected Setup™

PIN  
Pushbutton