



# 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: WFA101064**

## Product Info

|                       |                              |
|-----------------------|------------------------------|
| Date of Certification | December 15, 2021            |
| Company               | Intel                        |
| Product Name          | Intel® Wi-Fi 6E AX210 (Gig+) |
| Product Model Variant | Location R2                  |
| Model Number          | AX210                        |
| Category              | Computers & Accessories      |
| Sub-category          | Internal Adapter             |

## Summary of Certifications

| CLASSIFICATION          | CERTIFICATION  |
|-------------------------|--|
| Applications & Services | Wi-Fi Location™  |
| 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 Enhanced Open™ 2021-01 |
| Optimization            | WMM®<br>WMM®-Power Save<br>Wi-Fi Agile Multiband™<br>Wi-Fi QoS Management™   |
| Security                | Protected Management Frames<br>WPA2™-Enterprise 2018-04<br>WPA2™-Personal 2021-01<br>WPA3™-Enterprise 2020-02<br>WPA3™-Personal 2020-12  |



# Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA101064



## Summary of Certifications (continued)

Page 2 of 5

### CLASSIFICATION

### CERTIFICATION

#### Security

WPA™-Enterprise

WPA™-Personal

#### Spectrum & Regulatory Features

Spectrum & Regulatory



# Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA101064



Role: Station

Page 3 of 5

## Wi-Fi Components

### Wi-Fi Component Operating System

Linux

### Wi-Fi Component Firmware

9.7.1;commit:dd84161d;date:2021-10-20T12:28:30-07:00

### 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®

Max Throughput

### WMM®-Power Save

Legacy Power Save  
Unschedule auto PS

### WPA2™-Enterprise 2018-04

EAP methods  
EAP TLS  
EAP TTLS  
PEAPv0  
PEAPv1

### WPA2™-Personal 2021-01



# Wi-Fi CERTIFIED™ Certificate

Certification ID: WFA101064



Role: Station

Page 4 of 5

## WPA3™-Enterprise 2020-02

### EAP methods

- EAP TLS
- EAP TTLS
- PEAPv0
- PEAPv1

### 192-bit security

- 192-bit security RSA 3K with the TLS\_DHE\_RSA\_WITH\_AES\_256\_GCM\_SHA384 cipher suite
- 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

## WPA™-Enterprise

## WPA™-Personal

## Wi-Fi Agile Multiband™

### ANQP

- ANQP-based Neighbor report
- Beacon Report Measurement Active Mode
- Beacon Report Measurement Passive Mode
- BTM Query
- Cellular Data capable
- Fast Transition OTA on WPA2-Personal
- Fast Transition OTA on WPA2-Enterprise

## Wi-Fi CERTIFIED 6® Release 2

A-MPDU with A-MSDU

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

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

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

- UL Extended Range

- 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™ Certificate

Certification ID: WFA101064



Role: Station

Page 5 of 5

## 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  
SU beamformee

## Wi-Fi QoS Management™ (continued)

MSCS setup at association  
Stream Classification Service

## Wi-Fi CERTIFIED™ b

## Wi-Fi CERTIFIED™ g

## Wi-Fi CERTIFIED™ n

STBC  
A-MPDU Tx  
OBSS on Extension Channel  
Power Management  
Short Guard Interval

## Wi-Fi Enhanced Open™ 2021-01

## Wi-Fi Location™

Fine Timing Measurement 2017

## Wi-Fi QoS Management™

Default DSCP to UP mapping  
DSCP QoS Map  
DSCP Policy  
Mirrored Stream Classification Service