



Wi-Fi CERTIFIED™ Interoperability Certificate

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



Certification ID: WFA93617

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|-----------------------------------|---|
| Date of Last Certification | August 14, 2020 |
| Company | Huawei Technologies Co., Ltd. |
| Product | Smart Phone |
| Model Number | ELS-N04 |
| Product Identifier(s) | |
| Category | Phones |
| Subcategory | Smartphone, multi-mode (Wi-Fi and other) |
| Hardware Version | Product: HN2ELSAM, Wi-Fi Component: Hi1105V100 |
| Firmware Version | Product: EMUI 11.0.0, Wi-Fi Component: Hi1105V100 |
| Operating System | Android, version: 10 |
| Frequency Band(s) | 2.4 GHz, 5 GHz |

Summary of Certifications

| CLASSIFICATION | PROGRAM |
|-------------------------|---------------------------------|
| Connectivity | Wi-Fi CERTIFIED 6™ |
| | Wi-Fi CERTIFIED™ a, b, g, n, ac |
| | WPA™ – Enterprise, Personal |
| | WPA2™ – Enterprise, Personal |
| | WPA3™ – Enterprise, Personal |
| | Wi-Fi Direct® |
| Optimization | Wi-Fi Agile Multiband™ |
| | WMM® |
| | WMM®-Admission Control |
| | WMM®-Power Save |
| Applications & Services | Voice-Enterprise |



Security

WPA™ – Enterprise, Personal
WPA2™ – Enterprise, Personal
WPA3™ – Enterprise, Personal (Aug 2019)
EAP Type(s)
EAP-TLS
EAP-TTLS/MSCHAPv2
PEAPv0/EAP-MSCHAPv2
PEAPv1/EAP-GTC
EAP-SIM
EAP-AKA
EAP-AKA Prime
Protected Management Frames

Wi-Fi CERTIFIED™ a

Wi-Fi CERTIFIED™ b

Wi-Fi CERTIFIED™ g

Wi-Fi CERTIFIED™ n

2.4 GHz, 5 GHz
2 Spatial Streams 2.4 GHz
2 Spatial Streams 5 GHz
Short Guard Interval
TX A-MPDU
STBC Receive
40 MHz operation in 2.4 GHz, with coexistence mechanisms
40 MHz operation in 5 GHz
HT Duplicate Mode (MCS 32)

Wi-Fi CERTIFIED™ ac

2 Spatial Streams 5 GHz
Rx MCS 8-9 (256-QAM)
Rx STBC 2x1
Rx A-MPDU of A-MSDU
Low Density Parity Check coding
Tx SU beamformee
Rx DL MU-MIMO
RTS with BW Signaling
Rx 160 MHz operations
Extended 5 GHz Channel Support

Wi-Fi CERTIFIED 6™

2 Spatial Streams 2.4 GHz Rx
2 Spatial Streams 5 GHz Rx
Maximum Supported Channel Width (20, 40, 80 MHz)
DL MU-MIMO
DL SU Beamforming
UL OFDMA

Wi-Fi CERTIFIED 6™ (continued)

DL OFDMA
MU-BAR trigger frame
MU-RTS /CTS trigger frame
DL MU-PPDU with basic trigger frame
Buffer Status Report (BSRP) trigger frame
MU EDCA Parameter set
Multiple-BSSID Set

Wi-Fi Direct®

2.4 GHz, 5 GHz

Wi-Fi Agile Multiband™

Steer to Cellular Data

WMM®

WMM®-Admission Control

WMM®-Power Save

Voice-Enterprise

Spectrum and Regulatory Features

802.11h