



## 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](http://www.wi-fi.org/certification/programs)



**Certification ID: WFA72017**

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|                                   |  |
|-----------------------------------|--|
| <b>Date of Last Certification</b> | November 12, 2018                        |
| <b>Company</b>                    | Samsung Electronics                      |
| <b>Product</b>                    | SM-N935L                                 |
| <b>Model Number</b>               | SM-N935L                                 |
| <b>Product Identifier(s)</b>      |  |
| <b>Category</b>                   | Phones                                   |
| <b>Subcategory</b>                | Smartphone, multi-mode (Wi-Fi and other) |
| <b>Hardware Version</b>           | Product: REV0.1, Wi-Fi Component: REV1.0 |
| <b>Firmware Version</b>           | Product: 001, Wi-Fi Component: REV1.0    |
| <b>Operating System</b>           | Android, version: 9.0                    |
| <b>Frequency Band(s)</b>          | 2.4 GHz, 5 GHz                           |

### Summary of Certifications

| <b>CLASSIFICATION</b>   | <b>PROGRAM</b>                  |
|-------------------------|---------------------------------|
| Connectivity            | Wi-Fi CERTIFIED™ a, b, g, n, ac |
|                         | WPA™ – Enterprise, Personal     |
|                         | WPA2™ – Enterprise, Personal    |
|                         | Wi-Fi Direct®                   |
| Optimization            | WMM®                            |
|                         | WMM®-Admission Control          |
|                         | WMM®-Power Save                 |
| Applications & Services | Miracast® - Source              |
|                         | Voice-Enterprise                |



**Security**

WPA™ – Enterprise, Personal  
WPA2™ – Enterprise, Personal  
EAP Type(s)  
EAP-TLS  
EAP-TTLS/MSCHAPv2  
PEAPv0/EAP-MSCHAPv2  
PEAPv1/EAP-GTC  
EAP-SIM  
EAP-AKA  
EAP-AKA Prime  
EAP-FAST  
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 5 GHz  
HT Duplicate Mode (MCS 32)

**Wi-Fi CERTIFIED™ ac**

2 Spatial Streams 5 GHz  
Rx MCS 8-9 (256-QAM)  
Rx A-MPDU of A-MSDU  
Low Density Parity Check coding  
Tx SU beamformee  
Rx DL MU-MIMO  
Extended 5 GHz Channel Support

**Wi-Fi Direct®**

2.4 GHz, 5 GHz

**WMM®**

**WMM®-Admission Control**

**WMM®-Power Save**

**Miracast®**

Release 1  
Source Device  
Content Protection

**Voice-Enterprise**

**Spectrum and Regulatory Features**

802.11h