



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

Certification ID: WFA53089

Product Info

Date of Certification	March 17, 2014
Company	Samsung Electronics
Product Name	Samsung Galaxy S5
Product Model Variant	2014-03-17 (WFA53089 - 5337067)
Model Number	SM-G900X
Category	Phones
Sub-category	Smartphone, multi-mode (Wi-Fi and other)

Summary of Certifications

CLASSIFICATION	CERTIFICATION
Access	Passpoint® Release 1 Wi-Fi Protected Setup™
Applications & Services	Miracast® Wi-Fi Direct®
Connectivity	2.4 GHz Spectrum Capabilities 5 GHz Spectrum Capabilities Wi-Fi CERTIFIED™ a Wi-Fi CERTIFIED™ ac Wi-Fi CERTIFIED™ b Wi-Fi CERTIFIED™ g Wi-Fi CERTIFIED™ n
Optimization	WMM® WMM®-Power Save
Security	WPA2™-Enterprise WPA2™-Personal WPA™-Enterprise WPA™-Personal



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Summary of Certifications (continued)

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CLASSIFICATION

CERTIFICATION

Spectrum & Regulatory
Features

Spectrum & Regulatory



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Role: Station

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Wi-Fi Components

Wi-Fi Component Operating System

Android, version:4.4

Wi-Fi Component Firmware

REV1.0

RF Architecture

Bands Supported	Transmit (Tx)	Receive (Rx)
2.4 GHz	2	2
5 GHz	2	2

Certifications

2.4 GHz Spectrum Capabilities

20 MHz Channel Width
40 MHz Channel Width

5 GHz Spectrum Capabilities

20 MHz Channel Width
40 MHz Channel Width
80 MHz Channel Width

Passpoint® Release 1

Display and input method
Display of HS2.0 indication
NAI Home Realm Query element
Operating Class Indication
SIM credentials
USIM Credentials

Spectrum & Regulatory

802.11h

WMM®

WMM®-Power Save

Legacy Power Save
Unschedule auto PS

WPA2™-Enterprise

EAP methods
EAP AKA
EAP FAST-MSCHAPv2
EAP SIM
EAP TLS
EAP TTLS
PEAPv0
PEAPv1

WPA2™-Personal

WPA™-Enterprise

WPA™-Personal

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Wi-Fi CERTIFIED™ ac

A-MPDU with A-MSDU
MCS 8-9 Rx
Short Guard Interval
SU beamformee

Wi-Fi CERTIFIED™ b

Wi-Fi CERTIFIED™ g

Wi-Fi CERTIFIED™ n

A-MPDU Tx
HT Duplicate Mode
OBSS on Extension Channel
RIFS
Power Management
Short Guard Interval

Wi-Fi Direct®

Wi-Fi Protected Setup™

PIN
Pushbutton



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Role: Source

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Certifications

Miracast®

HDCP Encryption