# 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: WFA19524

## Product Info

| | |
|---|---|
| **Date of Certification** | June 19, 2013 |
| **Company** | Samsung Electronics |
| **Product Name** | Samsung Galaxy S4 (T-MOBILE) |
| **Product Model Variant** | 2013-06-19 (WFA19524 - 22595) |
| **Model Number** | SGH-M919N |
| **Category** | Phones |
| **Sub-category** | Smartphone |

## Summary of Certifications

| CLASSIFICATION | CERTIFICATION |
|---|---|
| **Access** | Passpoint® Release 1<br>Wi-Fi Protected Setup™ |
| **Applications & Services** | Miracast® |
| **Connectivity** | 2.4 GHz Spectrum Capabilities<br>5 GHz Spectrum Capabilities<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® |
| **Optimization** | WMM®<br>WMM®-Power Save |
| **Security** | WPA2™-Enterprise<br>WPA2™-Personal<br>WPA™-Enterprise<br>WPA™-Personal |

| CLASSIFICATION | CERTIFICATION |
| --- | --- |
| Spectrum & Regulatory Features | Spectrum & Regulatory |

# Wi-Fi CERTIFIED™ Certificate

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## Wi-Fi Components

### Wi-Fi Component Operating System

Proprietary / Other, description:(empty)

### Wi-Fi Component Firmware

(empty)

### RF Architecture

| Bands Supported | Transmit (Tx) | Receive (Rx) |
| --- | --- | --- |
| 2.4 GHz | 1 | 1 |
| 5 GHz | 1 | 1 |

## 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

### Passpoint® Release 1

### Spectrum & Regulatory

802.11h

### WMM®

### WMM®-Power Save

### WPA2™-Enterprise

EAP methods

### WPA2™-Enterprise (continued)

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

### WPA2™-Personal

### WPA™-Enterprise

### WPA™-Personal

### Wi-Fi CERTIFIED™ a

### Wi-Fi CERTIFIED™ ac

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

# Wi-Fi CERTIFIED™ Certificate

## Certification ID: WFA19524

**Wi-Fi CERTIFIED™ b**

**Wi-Fi CERTIFIED™ g**

**Wi-Fi CERTIFIED™ n**

A-MPDU Tx
HT Duplicate Mode
Short Guard Interval

**Wi-Fi Direct®**

**Wi-Fi Protected Setup™**

PIN
Pushbutton

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(empty)

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## Certifications

### Miracast®

HDCP Encryption