

Date: December 6, 2019



Harry Lee

SAMSUNG ELECTRONICS Co., Ltd
129 Samsung-ro
Yeongtong-gu
Gyeonggi-do
Suwon-si 16677
KOREA, REPUBLIC OF

Re: *EMVCo Letter of Approval – EMV Contactless Level 1 Mobile Product*

Approval Number: MTA_LOA_SAEL_02145
Approval Date: December 6, 2019
EMVCo Website Publication Date: February 26, 2020
Approval Expiration Date: December 6, 2022

Product Provider Name:	SAMSUNG ELECTRONICS Co., Ltd
Registration Number:	SAEL.V 14 0068
Commercial Name:	Galaxy S11
Product Name:	SM-G986B/DS
Product Version:	V1
Type Allocation Code (TAC) or product identifier for testing sample:	35984710
Type Allocation Code (TAC) or product identifier for production ¹ :	35984710
Implementation Conformance Statement:	MTA_ICS_SAEL_02145_66
EMV Specification:	Version 3.0
EMV Specification Bulletins:	N/A
Contactless Level 1 Analog Test Cases:	Version 3.0a
Contactless Level 1 Digital Test Cases:	Version 3.0a
Contactless Level 1 Performance Test Cases:	Version 2.2
Contactless Level 1 Interoperability Test Requirements:	Version 1.3
Contactless Level 1 Test Cases Bulletins:	N/A

¹ The value of the TAC or the product identifier for production is for information purposes only. Only the TAC value or the product identifier of the testing sample is checked by EMVCo.

Contactless Communication Protocol: Type A Type B

Execution Environment: UICC² slot 1 UICC² slot 2
 eSE HCE
 eUICC

Mobile Product Operating System Name and Version: Android Version 10.0

NFC Controller Name and Version: S3NSEN4 Version N/A

NFC Controller Firmware Name and Version: sec_s3nsen4_firmware Version 6.1.1

² The product was tested with a UICC provided by EMVCo. EMVCo does not guarantee that the product will function with other UICCs or in combination with other products.

Dear Harry Lee,

EMVCo, LLC ("EMVCo"), a Delaware limited liability company, has received your request for EMV contactless Level 1 mobile product approval for the above referenced product. In connection with your Request for Approval dated December 3, 2019 attached hereto as Attachment B, we have reviewed all reports submitted.

As a result, EMVCo has found reasonable evidence that the submitted samples passed EMVCo applicable analog and digital tests covering EMV® Level 1 Specifications for Payment Systems - EMV® Contactless Interface Specification, Version 3.0 of February 2018 other EMVCo requirements.

For a more detailed listing of the features supported by the product please review the Implementation Conformance Statement attached hereto as Attachment C.

EMVCo hereby (a) grants your EMVCo mobile type approval, based on the requirements stated in EMV® Level 1 Specifications for Payment Systems - EMV® Contactless Interface Specification, Version 3.0 of February 2018 and other EMVCo requirements, and (b) agrees to include your EMV mobile product in EMVCo's list of approved products. EMVCo mobile type approval does not extend to portions or components of a card or application that are not defined by EMV® Level 1 Specifications for Payment Systems - EMV® Contactless Interface Specification, Version 3.0 of February 2018. EMVCo's grant to your EMV mobile product is subject to and specifically incorporates (i) the General Terms and Conditions to the Letter of Approval enclosed as Exhibit A, and (ii) the Specific Terms and Conditions to the Letter of Approval attached hereto as Attachment A. Because EMVCo's grant is subject to such limitations, including certain events of termination, you and any third parties should confirm that such approval is current and has not been terminated by referring to the EMVCo list of approved products.

This Letter of Approval generally applies to the product only as tested. It can continue to apply to the product if it undergoes a minor change, as described in the Administrative Process document. If the product undergoes more than one minor change, or undergoes a change that is not categorized as a minor change, you must provide notice to EMVCo briefly describing such change(s) at least thirty (30) days prior to implementation of the applicable change. EMVCo may revoke this Letter of Approval if it no longer applies to the product, in which case additional testing would be required to reissue a Letter of Approval for the product

In addition, this Letter of Approval may be revoked at any time by EMVCo upon notice.

This product will appear in the public list of approved products on or after the EMVCo Website Publication Date indicated above, as required by you in your "Request for Approval (and Request for Publication)". If the date changes, it is the product provider's responsibility to promptly notify EMVCo CAWG Secretariat as early as possible before the EMVCo Website Publication Date.

This Letter of Approval is valid while the approval number is posted on the EMVCo website.

EMVCo, LLC

By:

Name: Keith Fojtik

Title: EMVCo Card & Mobile Type Approval Chair

Attachment A

Specific Terms and Conditions to Letter of Approval

During testing, the following issues were identified. Restrictions identified must be disclosed to customers (issuers or other product providers to whom the Product Provider intends to sell the product).

Restrictions, if any:

Comments, if any:

HCE Execution environment has been tested with kernels C2, C3, C4, C5.