

PAX Computer Technology (Shenzhen) Co.,Ltd.

4/F, No.3 Building, Software Park, Second Central Science-Tech Road,
High-Tech industrial Park, Shenzhen, Guangdong, P.R.C.
518057 Shenzhen Guangdong
China

March 19, 2019

Mastercard Contactless Reader Vendor Product – Letter of Approval

Approval Identifier: TLOA-PAXT171004-171128(b), Expires on November 21, 2020
Product Vendor: PAX Computer Technology (Shenzhen) Co.,Ltd.
Product Type: Single Component Intelligent Card Reader

Product Identification	Card Reader
Product Commercial Name	IM700 Version A
Product Technical Name	IM700-551-1E0 Version A
Application Selection Module	F ENTRY LIB Version 553
Mastercard Contactless Kernel	F MC LIB Version 552
Operating System	Prolin Version 2.7
Product Registration Number	SICR-PAXT-171004

EMVCo LoA – Terminal Level 1: 15838 1117 260 26b 26b BCTC
Test Assessment Level 2: TTAS- PAXT171004-BCT-1711-T031
PIN Entry Device: No

Implementation Options (*):	Supported?
EMV transaction flow	Yes
Data Exchange	Yes

(*) Please contact the product vendor to obtain the full description of all the technical features

Under the terms of the Mastercard Contactless Specification License Agreement dated April 10, 2006, this letter permits you to advise your customers that the above product has successfully completed the requirements for a vendor product approval by Mastercard as a **Mastercard Contactless Reader v3.1.1**.

Please see page 2 for the Conditions of Approval.

This letter does not constitute an endorsement or warranty by Mastercard regarding the functionality, quality or performance of the submitted product, including without limitation any warranties of merchantability, fitness for purpose or non-infringement, all of which are expressly disclaimed by Mastercard.

The product will be listed on the Mastercard customer portal as an approved Mastercard Contactless Reader vendor product until the Approval Expiration Date. Any change to the product must be promptly notified to Mastercard.

Mastercard reserves the right to use any approved Mastercard Contactless Reader product as a reference for future testing, certification or approval of other Mastercard Contactless products.

Yours sincerely,

Frédéric Fortin
Vice President, Product Development
EMV & Digital Devices
Cyber & Intelligence Solutions

Detail of Vendor Product Approval

Book D – EMV Contactless Communication Protocol Specification, Version 2.6 – March 2016
Mastercard Contactless Reader Specification – Version 3.1.1 – 29 November 2016
EMV Book C-2 - Kernel 2 Specification - Version 2.6 - February 2016
Specification Bulletin No.195: Errata for EMV Book C-2 (Version 2.6) - February 2017
Mastercard Contactless Performance Requirement – Application Note #7 – March 2014

Conditions of Approval

The following actions are to be taken by the vendor for this approval to be valid:

- i. During the Term of the Letter of Approval, the vendor shall ensure that all terminals are produced so that they are materially identical with the samples that were submitted for testing. Any change in the terminal that generates a different behavior of the terminal with respect to the Mastercard Contactless Reader Specifications and Mastercard Contactless Reader Test Assessments, in Mastercard's sole discretion, will be considered a major modification subject to a requirement of new vendor product testing and approval.
- ii. No PIN Entry Device security testing (PCI PED) has been performed on this card reader. PIN Entry is not a supported option on this device.
- iii. Approved readers or terminals must go through Mastercard's Terminal Quality Management (TQM) process prior to entering Mastercard's Terminal Integration Process (M-TIP). TQM is outsourced and managed by TUV Sud UK and can be initiated immediately after the reader or terminal has received the Level 1 Letter of Approval from EMVCo. For more details on TQM, vendors can contact Mastercard.TQM@tuv-sud.co.uk.
- iv. The vendor must make buyers of the product aware of the above conditions.

Product Technical Notes

- i. The Mastercard Data Exchange mechanism allows data to be exchanged between the Mastercard Contactless Reader kernel and the terminal application during the course of a payment transaction. Mastercard testing has demonstrated the capability of the product to perform as expected using a test application in place of the final terminal application. However, as the Mastercard Contactless Reader kernel to terminal application interface remains specific to the reader's vendor, any terminal application developer intending to use this mechanism must work closely with the Mastercard Contactless Reader's vendor to ensure successful integration.