

October 18, 2021

Aileen Liu

PAX Computer Technology (Shenzhen) Co., Ltd.

4/F., No.3 Building, Software Park, 2nd Central

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Guangdong

Shenzhen 518057

CHINA

**Re:** *EMVCo Letter of Approval - Contact Terminal Level 2*

**EMV Application Kernel:** F EMV LIB Version 655

**Approval Number(s):**  
2-04916-1-1C-ICTK-1021-4.3j  
2-04916-1-2C-ICTK-1021-4.3j  
2-04916-1-3C-ICTK-1021-4.3j  
2-04916-1-4C-ICTK-1021-4.3j  
2-04916-1-1OS-ICTK-1021-4.3j  
2-04916-1-2OS-ICTK-1021-4.3j

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The EMV Application Kernel has been tested on the following terminal

**Terminal:** S300  
**PinPad:** n/a  
**Operating System:** 1OS = PaxMe (32-bit) Version 3.0  
2OS = Prolin (32-bit) Version II

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**Renewal Date:** 01-Oct-2025

**Report ID** Session 1: EDT21033 Version 2.0 - ICTK Co., Ltd.

**Kernel Checksum:**

F7 5E FD 68
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**Configurations Checksums:**

Config	Vendor Config ID	Terminal	Checksum
1C	U2_NoSig	25	13 54 B5 43
2C	U3_OnlP	25	57 26 DB 46
3C	U4_NSigNNC	25	33 BC A2 59
4C	U1_NSigNOlP	25	0F 0C 6F 1F

Dear Aileen Liu:

EMVCo, LLC ("EMVCo"), a Delaware limited liability company, has received your request for Level 2 terminal type approval for the EMV Application Kernel identified above (hereafter referred to as the "Application"). In connection with your request, we have reviewed all test file number(s) listed above.

After assessing such file(s), EMVCo has found reasonable evidence that the submitted samples of the above referenced Application sufficiently conform to EMV Integrated Circuit Card Specifications for Payment Systems, Version 4.3 of November 2011.

EMVCo hereby grants your Application EMVCo Type Approval for Terminal Level 2, based on the requirements stated in the EMV 4.3 Specifications. Please note that EMVCo may publish this letter and publicly identify your Application as an approved Application, including in EMVCo's published list of approved Applications.

EMVCo's grant to your Application 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 1. 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 list of approved Applications published on the EMVCo website ([www.emvco.com](http://www.emvco.com)).

Please note that EMVCo makes certain logos available for use in connection with an Application that has received EMVCo approval. To obtain permission to use the "EMV Approved" certification mark, please contact EMVCo to request a license agreement.

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

EMVCo, LLC, a Delaware limited liability company

By:

Name: Frédéric Fortin

Title: EMVCo Terminal Type Approval Chair

<b>Terminal Capabilities</b>	<b>1C</b>	<b>2C</b>	<b>3C</b>	<b>4C</b>						
<b>Card Data Input Capability</b>										
Terminal Type	25	25	25	25						
Manual Key Entry	No	No	No	No						
Magnetic Stripe	Yes	Yes	Yes	Yes						
IC with Contacts	Yes	Yes	Yes	Yes						
<b>CVM Capability</b>										
Plaintext PIN	Yes	No	Yes	Yes						
Online Enciphered PIN	Yes	Yes	Yes	No						
Signature (Paper)	No	No	No	No						
Offline Enciphered PIN	Yes	No	Yes	Yes						
No CVM	Yes	No	No	Yes						
SB185	No	No	No	No						
Offline Finger	No	No	No	No						
Online Finger	No	No	No	No						
Offline Facial	No	No	No	No						
Online Facial	No	No	No	No						
Offline Palm	No	No	No	No						
Online Palm	No	No	No	No						
Offline Iris	No	No	No	No						
Online Iris	No	No	No	No						
Offline Voice	No	No	No	No						
Online Voice	No	No	No	No						
<b>Security Capability</b>										
SDA & DDA	Yes	Yes	Yes	Yes						
Card Capture	No	No	No	No						
CDA	Mode 1	Mode 1	Mode 1	Mode 1						
<b>Transaction Type Capability</b>										
Tran Type - Cash	Yes	Yes	Yes	Yes						
Tran Type - Goods	Yes	Yes	Yes	Yes						
Tran Type - Services	Yes	Yes	Yes	Yes						
Tran Type - Cash Back	Yes	Yes	Yes	Yes						
Tran Type - Inquiry	Yes	Yes	Yes	Yes						
Tran Type - Transfer	Yes	Yes	Yes	Yes						
Tran Type - Payment	Yes	Yes	Yes	Yes						
Tran Type - Admin	Yes	Yes	Yes	Yes						
Tran Type - Cash Deposit	Yes	Yes	Yes	Yes						
<b>Terminal Data Input Capability</b>										
Keypad	Yes	Yes	Yes	Yes						
Numeric Keys	Yes	Yes	Yes	Yes						
Alpha and Special Character Keys	Yes	Yes	Yes	Yes						
Command Keys	Yes	Yes	Yes	Yes						
Function Keys	Yes	Yes	Yes	Yes						

(continued)	1C	2C	3C	4C						
<b>Terminal Data Output Capability</b>										
Print, Attendant	No	No	No	No						
Print, Cardholder	Yes	Yes	Yes	Yes						
Display, Attendant	No	No	No	No						
Display, Cardholder	Yes	Yes	Yes	Yes						
Code Table 10	No	No	No	No						
Code Table 9	No	No	No	No						
Code Table 8	No	No	No	No						
Code Table 7	No	No	No	No						
Code Table 6	No	No	No	No						
Code Table 5	No	No	No	No						
Code Table 4	No	No	No	No						
Code Table 3	No	No	No	No						
Code Table 2	No	No	No	No						
Code Table 1	Yes	Yes	Yes	Yes						
<b>Application Selection</b>										
PSE	Yes	Yes	Yes	Yes						
Cardholder Confirmation	Yes	Yes	Yes	Yes						
Preferred display order	No	No	No	No						
Partial AID Selection	Yes	Yes	Yes	Yes						
Multi language	Yes	Yes	Yes	Yes						
EMV Language Selection method	Yes	Yes	Yes	Yes						
Common Character Set	Yes	Yes	Yes	Yes						
<b>Data Authentication</b>										
MAX CA Public key	248	248	248	248						
Exponents	3 and $2^{16}+1$	3 and $2^{16}+1$	3 and $2^{16}+1$	3 and $2^{16}+1$						
Revocation of Issuer PK Certificate	Yes	Yes	Yes	Yes						
Certificate Revocation List Format	RID+CA Public Key Index + Certificate Serial Numbe	RID+CA Public Key Index + Certificate Serial Numbe	RID+CA Public Key Index + Certificate Serial Numbe	RID+CA Public Key Index + Certificate Serial Numbe						
Default DDOL	Yes	Yes	Yes	Yes						
Manual act. when CA PK loading fails	No	No	No	No						
CA PK verified with check sum	Yes	Yes	Yes	Yes						
<b>Cardholder Verification Method</b>										
Bypass PIN Entry	Yes	Yes	Yes	Yes						
Subsequent Bypass PIN Entry	Yes	Yes	Yes	Yes						
Get Data for PIN Try Counter	Yes	No	Yes	Yes						
Fail CVM	Yes	Yes	Yes	Yes						
Amount known before CVM proces.	Yes	Yes	Yes	Yes						
<b>Terminal Risk Management</b>										
Floor Limit Checking	Yes	Yes	Yes	Yes						
Random Transaction Selection	Yes	Yes	Yes	Yes						
Velocity Checking	Yes	Yes	Yes	Yes						
Transaction Log	Yes	Yes	Yes	Yes						
Exception File	Yes	Yes	Yes	Yes						
TRM irrespective of AIP setting (expected behavior)	Yes	Yes	Yes	Yes						

(continued)	1C	2C	3C	4C						
<b>Terminal Action Analysis</b>										
Terminal Action Codes supported	Yes	Yes	Yes	Yes						
TAC can be deleted or disabled	Yes	Yes	Yes	Yes						
How does offline only Terminal process Default Action Codes?	N/A	N/A	N/A	N/A						
How does online only terminal process TAC/IAC-Default when unable to go online?	N/A	N/A	N/A	N/A						
<b>Completion Processing</b>										
Forced Online	No	No	No	No						
Forced Acceptance	No	No	No	No						
Advices	Yes	Yes	Yes	Yes						
Voice Referrals Initiated by Issuer	No	No	No	No						
Batch Data Capture	Yes	Yes	Yes	Yes						
Online Data Capture	Yes	Yes	Yes	Yes						
Default TDOL	Yes	Yes	Yes	Yes						
Default TDOL not configured	No	No	No	No						
<b>Exception Handling</b>										
POS Entry Mode	92	92	92	92						
<b>Miscellaneous</b>										
Amount and PIN on same keypad	Yes	Yes	Yes	Yes						
ICC/Magstripe Reader Combined	No	No	No	No						
If Combined, is Magstripe read first?	n/a	n/a	n/a	n/a						
Supports account type selection	Yes	Yes	Yes	Yes						
Supports 'on fly' script processing	No	No	No	No						
Issuer Script device limit > 128 bytes	Yes	Yes	Yes	Yes						
If limit > 128, value supported?	256	256	256	256						
Internal Date Management	Yes	Yes	Yes	Yes						
Does the terminal support Receipt?	Yes	Yes	Yes	Yes						

## **Attachment 1**

### **Specific Terms and Conditions to the Letter of Approval**

Restriction:

**None**