

December 02, 2022



Mr. Harrison Lee
NEW POS Technology Limited
AB Unit, 14th Floor, Block A, Financial Technology Building
No. 11 Keyuan Rd, Nanshan District
Shenzhen 518057
CHINA

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

EMV Application Kernel: libemv.so Version 1.0.13
Approval Number(s): 2-05124-1-1C-BCTS-1222-4.3k
2-05124-1-2C-BCTS-1222-4.3k
2-05124-1-3C-BCTS-1222-4.3k
2-05124-1-4C-BCTS-1222-4.3k
2-05124-1-1OS-BCTS-1222-4.3k

The EMV Application Kernel has been tested on the following terminal

Terminal: NEW8210
PinPad: n/a
Operating System: IOS = Linux Version 2.6.32 32bits

Renewal Date: 18-Nov-2026

Report ID Session 1: **TEMV2256F1T Version V1.0 - Beijing Unionpay Card Technology Co., Ltd. Shenzhen Branch**

Kernel Checksum:

1D5BB1C367D3EA8BD8C1E50CF61CE7CEA9056142

Configurations Checksums:

Config	Vendor Config ID	Terminal	Checksum
1C	C1	22	4E00DED597EAA933C7E73D80EDB9FEF899D6BE3C
2C	C2	22	C025AF57137ECEF742094681695524CBE1220A35
3C	C3	22	31333741DB800C9FF66AC94CCCC27DF6D454108D
4C	C4	11	BB8FD7AFE9B89ADAA591B46DEE45BC0342F4006B

Dear Mr. Lee:

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).

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

Terminal Capabilities	1C	2C	3C	4C						
Card Data Input Capability										
Terminal Type	22	22	22	11						
Manual Key Entry	Yes	Yes	Yes	No						
Magnetic Stripe	Yes	Yes	Yes	Yes						
IC with Contacts	Yes	Yes	Yes	Yes						
CVM Capability										
Plaintext PIN	Yes	Yes	Yes	No						
Online Enciphered PIN	Yes	Yes	No	Yes						
Signature (Paper)	Yes	Yes	Yes	No						
Offline Enciphered PIN	Yes	Yes	Yes	No						
No CVM	Yes	No	No	No						
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						
Security Capability										
SDA & DDA	Yes	Yes	Yes	No						
Card Capture	No	No	No	No						
CDA	Mode 1	Mode 1	Mode 1	No						
Transaction Type Capability										
Tran Type - Cash	Yes	Yes	Yes	Yes						
Tran Type - Goods	Yes	Yes	Yes	No						
Tran Type - Services	Yes	Yes	Yes	No						
Tran Type - Cash Back	Yes	Yes	Yes	No						
Tran Type - Inquiry	Yes	Yes	Yes	Yes						
Tran Type - Transfer	Yes	Yes	Yes	No						
Tran Type - Payment	Yes	Yes	Yes	No						
Tran Type - Admin	Yes	Yes	Yes	Yes						
Tran Type - Cash Deposit	No	No	No	No						
Terminal Data Input Capability										
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						
Terminal Data Output Capability										
Print, Attendant	Yes	Yes	Yes	Yes						
Print, Cardholder	No	No	No	No						
Display, Attendant	Yes	Yes	Yes	Yes						
Display, Cardholder	No	No	No	No						
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						
Application Selection										
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						
Data Authentication										
MAX CA Public key	248	248	248							
Exponents	3 and 2 ¹⁶ +1	3 and 2 ¹⁶ +1	3 and 2 ¹⁶ +1							
Revocation of Issuer PK Certificate	Yes	Yes	Yes	No						
Certificate Revocation List Format	RID+INDEX+CSN	RID+INDEX+CSN	RID+INDEX+CSN							
Default DDOL	Yes	Yes	Yes	No						
Manual act. when CA PK loading fails	Yes	Yes	Yes	Yes						
CA PK verified with check sum	Yes	Yes	Yes	Yes						
Cardholder Verification Method										
Bypass PIN Entry	Yes	Yes	Yes	Yes						
Subsequent Bypass PIN Entry	Yes	Yes	Yes	No						
Get Data for PIN Try Counter	Yes	Yes	Yes	No						
Fail CVM	Yes	Yes	Yes	Yes						
Amount known before CVM proces.	Yes	Yes	Yes	Yes						
Terminal Risk Management										
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						
Terminal Action Analysis										
Terminal Action Codes supported	Yes	Yes	Yes	Yes						
TAC can be deleted or disabled	No	No	No	No						
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?	Normal	Normal	Normal	Normal						
Completion Processing										
Forced Online	Yes	Yes	Yes	Yes						
Forced Acceptance	Yes	Yes	Yes	Yes						
Advices	Yes	Yes	Yes	Yes						
Voice Referrals Initiated by Issuer	Yes	Yes	Yes	Yes						
Batch Data Capture	Yes	Yes	Yes	Yes						
Online Data Capture	Yes	Yes	Yes	Yes						
Default TDOL	Yes	Yes	Yes	Yes						
Default TDOL not configured	Yes	Yes	Yes	Yes						
Exception Handling										
POS Entry Mode	80	80	80	80						
Miscellaneous										
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	No	No	No	No						
If limit > 128, value supported?										
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