![EMVCo logo]

August 29, 2025

Mr. Ajay Sinha

Access Computech Pvt Ltd

504/6, GIDC Industrial Estate, Makarpura

Vadodara, Gujarat. India.

Vadodara 390 010

INDIA

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

EMV Application Kernel:	**libemv Version V4.3j_2.0.3**

Approval Number(s):

    2-05667-1-1C-BCTC-0825-4.4c

    2-05667-1-2C-BCTC-0825-4.4c

    2-05667-1-1P-BCTC-0825-4.4c

    2-05667-1-1OS-BCTC-0825-4.4c

The EMV Application Kernel has been tested on the following terminal

    Terminal: **APos A20**

    PinPad: **1P = APos A20, libemv_PP V4.3j_2.0.3 - PIN pad is valid for configuration(s): 1C, 2C**

    Operating System: **1OS = FT_POS_OS Version 2.1.1**

Renewal Date: **29-Aug-2029**

Report ID   Session 1: **TEMV2548V1T Version V1.0 - Beijing Unionpay Card Technology Co., Ltd.**

Kernel Checksum:

73620A71

Configurations Checksums:

Config	Vendor Config ID	Terminal	Checksum
1C	C1	22	752AE9BB
2C	C2	22	6BFB2CA5

PIN Pads Checksums:

PinPad	Checksum
1P	4C79D7A8

Dear Mr. Sinha:

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 refered 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 4.4 of October 2022.

EMVCo hereby grants your Application EMVCo Type Approval for Terminal Level 2, based on the requirements stated in the EMV 4.4 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.

Authorised by Frédéric Fortin
Terminal Testing Group Chair
EMVCo, LLC

Note:

The Random Number Generator and the Cryptographic Functions are part of the EMV specifications. This Contact Level 2 Kernel utilizes a specific Hardware component in the tested terminal to generate random numbers and/or Cryptographic Functions. To be EMV compliant, this Contact Level 2 Kernel shall be used in conjunction with terminals having this specific Hardware component.

Terminal Capabilities	1C	2C									
Card Data Input Capability											
Terminal Type	22	22									
Manual Key Entry	No	No									
Magnetic Stripe	Yes	Yes									
IC with Contacts	Yes	Yes									
CVM Capability											
Plaintext PIN	Yes	Yes									
Online Enciphered PIN	Yes	No									
Signature (Paper)	Yes	Yes									
Offline Enciphered PIN (RSA)	Yes	Yes									
No CVM	Yes	Yes									
Offline Enciphered PIN (ECC)	No	No									
Biometric	No	No									
Offline Finger	No	No									
Online Finger	No	No									
Offline Facial	No	No									
Online Facial	No	No									
Offline Palm	No	No									
Online Palm	No	No									
Offline Iris	No	No									
Online Iris	No	No									
Offline Voice	No	No									
Online Voice	No	No									
Security Capability											
SDA & DDA	Yes	Yes									
Card Capture	No	No									
CDA	Mode 1	Mode 1									
XDA	No	No									
Transaction Type Capability											
Tran Type - Cash	No	No									
Tran Type - Goods	Yes	Yes									
Tran Type - Services	Yes	Yes									
Tran Type - Cash Back	No	No									
Tran Type - Inquiry	No	No									
Tran Type - Transfer	No	No									
Tran Type - Payment	No	No									
Tran Type - Admin	No	No									
Tran Type - Cash Deposit	No	No									
Terminal Data Input Capability											
Keypad	No	No									
Numeric Keys	No	No									
Alpha and Special Character Keys	No	No									
Command Keys	No	No									
Function Keys	No	No									

(continued)	1C	2C								
Terminal Data Output Capability										
Print	Yes	Yes								
Display	Yes	Yes								
Code Table 10	No	No								
Code Table 9	No	No								
Code Table 8	No	No								
Code Table 7	No	No								
Code Table 6	No	No								
Code Table 5	No	No								
Code Table 4	No	No								
Code Table 3	No	No								
Code Table 2	No	No								
Code Table 1	Yes	Yes								
Application Selection										
PSE	Yes	Yes								
Cardholder Confirmation	Yes	Yes								
Preferred display order	No	No								
Partial AID Selection	Yes	Yes								
Multi language	Yes	Yes								
EMV Language Selection method	Yes	Yes								
Common Character Set	Yes	Yes								
Data Authentication										
Revocation of Issuer PK Certificate	Yes	Yes								
Certificate Revocation List Format	RID+CA Public Key Index+Certificate Serial Number	RID+CA Public Key Index+Certificate Serial Number								
Default DDOL	Yes	Yes								
Cardholder Verification Method										
Bypass PIN Entry	Yes	Yes								
Subsequent Bypass PIN Entry	Yes	Yes								
Get Data for PIN Try Counter	Yes	Yes								
Fail CVM	Yes	Yes								
Amount known before CVM proces.	Yes	Yes								
Terminal Risk Management										
Floor Limit Checking	Yes	Yes								
Random Transaction Selection	Yes	Yes								
Velocity Checking	Yes	Yes								
Transaction Log	Yes	Yes								
Exception File	Yes	Yes								
TRM irrespective of AIP setting (expected behavior)	Yes	Yes								

(continued)	1C	2C							
Terminal Action Analysis									
Terminal Action Codes supported	Yes	Yes							
TAC can be deleted or disabled	Yes	Yes							
How does offline only Terminal process Default Action Codes?	N/A	N/A							
How does online only terminal process TAC/IAC-Default when unable to go online?	N/A	N/A							
Completion Processing									
Forced Online	Yes	Yes							
Forced Acceptance	Yes	Yes							
Voice Referrals Initiated by Issuer	Yes	Yes							
Default TDOL	Yes	Yes							
Default TDOL not configured	Yes	Yes							
Exception Handling									
POS Entry Mode	80	80							
Miscellaneous									
Amount and PIN on same keypad	No	No							
ICC/Magstripe Reader Combined	No	No							
Supports account type selection	No	No							
Supports 'on fly' script processing	No	No							
Issuer Script device limit > 128 bytes	Yes	Yes							
If limit > 128, value supported?	0	0							
Internal Date Management	Yes	Yes							
Does the terminal support Receipt?	Yes	Yes							

Attachment 1
Specific Terms and Conditions to the Letter of Approval

Restriction:

None