

February 03, 2026



Mr. Hengkui Wang
BeiJing HuaDa ZhiBao Electronic System Co., Ltd.
No.1 Gaojiayuan, Chaoyang District
Beijing 100015
China

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

EMV Application Kernel: EmvCore Version V4.4c

Approval Number(s): **2-05744-1-1C-0226-4.4c**
2-05744-1-1P-0226-4.4c
2-05744-1-1OS-0226-4.4c

The EMV Application Kernel has been tested on the following terminal

Terminal: **BHZ800**

PinPad: **1P = BHZ800, EmvCore - PIN pad is valid for configuration(s): 1C**

Operating System: **1OS = Android 32 bits Version 14**

Renewal Date: **29-Dec-2029**

Report ID Session 1: **TEMV256S51T Version V1.0 - Beijing Unionpay Card Technology Co., Ltd.**

Kernel Checksum:

ab2f4c85855122f1

Configurations Checksums:

Config	Vendor Config ID	Terminal	Checksum
1C	IC	22	32284d948f541e37

PIN Pads Checksums:

PinPad	Checksum
1P	ab2f4c85855122f1

Dear Mr. Wang:

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 4.4 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 is part of the EMV specifications. This Contact Level 2 Kernel utilizes a specific Hardware component in the tested terminal to generate random numbers. To be EMV compliant, this Contact Level 2 Kernel shall be used in conjunction with terminals having this specific hardware component.

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

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

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

Attachment 1

Specific Terms and Conditions to the Letter of Approval

Restriction:

None

Conditions:

This product is not able to handle transaction date beyond the 31st of December 2037.