

September 08, 2025

Mr. Kaishen Zhu

WIZARPOS International Co., Ltd.

Room 1001, SEARI Building, 509 Wuning Rd

Shanghai 200063

CHINA

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

**EMV Application Kernel: EMVKernel Version 2.1.3**

**Approval Number(s):**  
2-05655-1-1C-BCTS-0925-4.4c  
2-05655-1-2C-BCTS-0925-4.4c  
2-05655-1-3C-BCTS-0925-4.4c  
2-05655-1-4C-BCTS-0925-4.4c  
2-05655-1-5C-BCTS-0925-4.4c  
2-05655-1-6C-BCTS-0925-4.4c  
2-05655-1-7C-BCTS-0925-4.4c  
2-05655-1-1P-BCTS-0925-4.4c  
2-05655-1-1OS-BCTS-0925-4.4c

The EMV Application Kernel has been tested on the following terminal

**Terminal: WIZARPOS Q2**

**PinPad: 1P = WIZARPOS Q2, EMVKernel - PIN pad is valid for configuration(s): 1C, 2C, 3C, 4C, 5C, 7C**

**Operating System: 1OS = WIZAROS Version 1.0**

**Renewal Date: 25-Aug-2029**

**Report ID Session 1: TEMV253TP1T Version V1.0 - Beijing Unionpay Card Technology Co., Ltd.**

**Kernel Checksum:**

54723E03BEA4B640

**Configurations Checksums:**

Config	Vendor Config ID	Terminal	Checksum
1C	CFG.001	22	A3E89F20C1490A80
2C	CFG.002	22	5AAC0ABE919120D6
3C	CFG.003	22	35215D281662D87D
4C	CFG.004	22	C9B0157CC694DB7F
5C	CFG.005	22	0834E204E0649C56
6C	CFG.006	22	4A483BDA677757CD
7C	CFG.007	11	AAAE5D58F6DB0868

**PIN Pads Checksums:**

PinPad	Checksum
1P	54723E03BEA4B640

Dear Mr. Zhu:

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](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.***

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.**

<b>Terminal Capabilities</b>	<b>1C</b>	<b>2C</b>	<b>3C</b>	<b>4C</b>	<b>5C</b>	<b>6C</b>	<b>7C</b>			
<b>Card Data Input Capability</b>										
Terminal Type	22	22	22	22	22	22	11			
Manual Key Entry	Yes	Yes	Yes	Yes	Yes	Yes	No			
Magnetic Stripe	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
IC with Contacts	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
<b>CVM Capability</b>										
Plaintext PIN	Yes	Yes	Yes	No	Yes	No	No			
Online Enciphered PIN	Yes	No	No	Yes	Yes	No	Yes			
Signature (Paper)	Yes	Yes	Yes	Yes	Yes	Yes	No			
Offline Enciphered PIN (RSA)	Yes	Yes	Yes	No	Yes	No	No			
No CVM	Yes	Yes	No	No	No	Yes	No			
Offline Enciphered PIN (ECC)	No	No	No	No	No	No	No			
Biometric	No	No	No	No	No	No	No			
Offline Finger	No	No	No	No	No	No	No			
Online Finger	No	No	No	No	No	No	No			
Offline Facial	No	No	No	No	No	No	No			
Online Facial	No	No	No	No	No	No	No			
Offline Palm	No	No	No	No	No	No	No			
Online Palm	No	No	No	No	No	No	No			
Offline Iris	No	No	No	No	No	No	No			
Online Iris	No	No	No	No	No	No	No			
Offline Voice	No	No	No	No	No	No	No			
Online Voice	No	No	No	No	No	No	No			
<b>Security Capability</b>										
SDA & DDA	Yes	Yes	Yes	Yes	Yes	Yes	No			
Card Capture	No	No	No	No	No	No	No			
CDA	Mode 1	Mode 1	Mode 1	Mode 1	Mode 1	Mode 1	No			
XDA	No	No	No	No	No	No	No			
<b>Transaction Type Capability</b>										
Tran Type - Cash	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Tran Type - Goods	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Tran Type - Services	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Tran Type - Cash Back	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Tran Type - Inquiry	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Tran Type - Transfer	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Tran Type - Payment	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Tran Type - Admin	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Tran Type - Cash Deposit	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
<b>Terminal Data Input Capability</b>										
Keypad	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Numeric Keys	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Alpha and Special Character Keys	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Command Keys	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Function Keys	Yes	Yes	Yes	Yes	Yes	Yes	Yes			

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

(continued)	1C	2C	3C	4C	5C	6C	7C			
<b>Terminal Action Analysis</b>										
Terminal Action Codes supported	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
TAC can be deleted or disabled	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
How does offline only Terminal process Default Action Codes?	Option 1	Option 1	Option 1	Option 1	Option 1	Option 1	N/A			
How does online only terminal process TAC/IAC-Default when unable to go online?	Normal	Normal	Normal	Normal	Normal	Normal	Skipped			
<b>Completion Processing</b>										
Forced Online	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Forced Acceptance	Yes	Yes	Yes	Yes	Yes	Yes	No			
Voice Referrals Initiated by Issuer	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Default TDOL	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Default TDOL not configured	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
<b>Exception Handling</b>										
POS Entry Mode	80	80	80	80	80	80	80			
<b>Miscellaneous</b>										
Amount and PIN on same keypad	Yes	Yes	Yes	Yes	Yes	No	Yes			
ICC/Magstripe Reader Combined	No	No	No	No	No	No	No			
Supports account type selection	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Supports 'on fly' script processing	No	No	No	No	No	No	No			
Issuer Script device limit > 128 bytes	No	No	No	No	No	No	No			
If limit > 128, value supported?										
Internal Date Management	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Does the terminal support Receipt?	Yes	Yes	Yes	Yes	Yes	Yes	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 2038