December 30, 2024



Mr. Chao Xing

Beijing Wiseasy Technology Co.,Ltd.

Room 01, 27th Floor, No. 1 Building, No. 36 Xiaoyun Road,

Chaoyang District, Beijing, China.

Beijing 100102

China

Re: EMVCo Letter of Approval - Contact Terminal Level 2

EMV Application Kernel: EMV_Kernel_ContL2 Version V01.00

Approval Number(s): **2-05540-1-1C-BCTC-1224-4.4b**

2-05540-1-2C-BCTC-1224-4.4b 2-05540-1-1P-BCTC-1224-4.4b 2-05540-1-1OS-BCTC-1224-4.4b

The EMV Application Kernel has been tested on the following terminal

Terminal: P053

PinPad: 1P = P053, WiseOS Version 2 - PIN pad is valid for configuration(s): 1C, 2C

Operating System: **10S = WiseOS Version Version 2**

Renewal Date: 24-Dec-2028

Report ID Session 1: TEMV2469U1T Version V1.0 - Beijing Unionpay Card Technology Co., Ltd

(Bank Card Test Center)

Kernel Checksum:

3F 80 44 A7

Configurations Checksums:

Config	Vendor Config ID	Terminal	Checksum
1C	1C	22	D5 55 E5 36
2C	2C	22	66 56 23 86

PIN Pads Checksums:

1 11 1 1 000	di Chechina.
PinPad	Checksum
1P	3F 80 44 A7

Dear Mr. Xing:

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.

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Terminal Capabilities	1C	2C								
Card Data Input Capability										
Terminal Type	22	22								
Manual Key Entry	Yes	Yes								
Magnetic Stripe	Yes	Yes								
IC with Contacts	Yes	Yes								
CVM Capability				II.	II.					
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				II.	II.			I.		I.
SDA & DDA	Yes	Yes								
Card Capture	No	No								
CDA	Mode 1	Mode 1								
XDA	No	No								
Transaction Type Capability				II.	II.	1	1		1	
Tran Type - Cash	Yes	Yes								
Tran Type - Goods	Yes	Yes								
Tran Type - Services	Yes	Yes								
Tran Type - Cash Back	Yes	Yes								
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	,	II.	I.	1	1	1	1	I.	1	1
Keypad	Yes	Yes								
Numeric Keys	Yes	Yes								
Alpha and Special Character Keys	Yes	Yes								
Command Keys	Yes	Yes								
Function Keys	Yes	Yes								
•		1	1	1	I	1	1	l .	1	l .

(continued)	1C	2C						
Terminal Data Output Capabilit	:y							
Print, Attendant	Yes	Yes						
Print, Cardholder	No	No						
Display, Attendant	Yes	Yes						
Display, Cardholder	No	No						
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		l	l		l		II.	
PSE	Yes	Yes						
Cardholder Confirmation	Yes	Yes						
Preferred display order	Yes	Yes						
Partial AID Selection	Yes	Yes						
Multi language	No	No						
EMV Language Selection method	No	No						
Common Character Set	Yes	Yes						
Data Authentication		I.	I.		I.	1		
MAX CA Public key	248	248						
Exponents	3 and 2^16+1	3 and 2^16+1						
Revocation of Issuer PK Certificate	Yes	Yes						
Certificate Revocation List Format		RID+CA Public Key Index+Certifi cate Serial Number						
Default DDOL	Yes	Yes						
Cardholder Verification Method								
Bypass PIN Entry	Yes	No						
Subsequent Bypass PIN Entry	Yes	No						
Get Data for PIN Try Counter	Yes	Yes						
Fail CVM	Yes	Yes						
Amount known before CVM proces.	Yes	Yes						
Terminal Risk Management							ı	
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?	Normal	Normal					
Completion Processing			II.	1	 1	1	l
Forced Online	Yes	Yes					
Forced Acceptance	Yes	Yes					
Voice Referrals Initiated by Issuer	Yes	Yes					
Default TDOL	Yes	Yes					
Default TDOL not configured	No	No					
Exception Handling				1			
POS Entry Mode	80	80					
Miscellaneous				1			
Amount and PIN on same keypad	Yes	Yes					
ICC/Magstripe Reader Combined	No	No					
Supports account type selection	Yes	Yes					
Supports 'on fly' script processing	No	No					
Issuer Script device limit > 128 bytes	No	No					
If limit > 128, value supported?							
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
Conditions:
This product is not able to handle transaction date beyond the 19th of January 2038