March 31, 2025



Mr. yueping he Ciontek technology corp. Floor five, No. 6 of Yuexing 2nd Road, Nanshan District

Shenzhen, Guangdong Province 518057 CHINA

Re:	EMVCo Letter of Approval - Contact Terminal Level 2						
EMV Application Kernel:	EMV Version v1.0.1						

Approval Number(s):	2-05575-1-1C-BCTS-0325-4.4b
	2-05575-1-2C-BCTS-0325-4.4b
	2-05575-1-1P-BCTS-0325-4.4b
	2-05575-1-10S-BCTS-0325-4.4b

The EMV Application Kerne	el has been tested on the following terminal
Terminal:	CS20
PinPad:	1P = CS20, safedroid 1.0 - PIN pad is valid for configuration(s): 1C, 2C
Operating System:	1OS = safedroid Version 1.0

Renewal Date: 20-Mar-2029

Report ID Session 1: TEMV250JS1T Version V1.0 - Beijing Unionpay Card Technology Co., Ltd. Shenzhen Branch

Kernel Checksum:

87E264A7

Configurations Checksums:									
Config	Vendor Config ID	Terminal	Checksum						
1C	C1	22	1236B812						
2C	C2	22	4E2994F1						

PIN Pads Checksums:

PinPad	Checksum
1P	87E264A7

Dear Mr. he:

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

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	1	1	1	1	1	1	1	1
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	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	/						 	
Keypad	Yes	Yes						
Numeric Keys	Yes	Yes						
Alpha and Special Character Keys	Yes	Yes						
Command Keys	Yes	Yes						
Function Keys	Yes	Yes						

(continued)	1C	2C						
Terminal Data Output Capabil	ity							
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								<u>.</u>
PSE	Yes	Yes						
Cardholder Confirmation	Yes	Yes						
Preferred display order	Yes	No						
Partial AID Selection	Yes	Yes						
Multi language	No	Yes						
EMV Language Selection method	No	Yes						
Common Character Set	Yes	Yes						
Data Authentication		1	1	1	1	1	I	
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+INDEX +CSN	RID+INDEX +CSN						
Default DDOL	Yes	Yes						
Cardholder Verification Metho	d				1	r.	L.	
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								
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	No					
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	1			1	1	1	1
Forced Online	Yes	Yes					
Forced Acceptance	No	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	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 31st of December 2037.