June 19, 2023



Bonny Peng

Baibu Technology Co.,Ltd.

Qianhai Complex A201,Qianwan Road 1,Qianhai Shenzhen-Hong

Kong Cooperation Zone, Shenzhen, China.

Shenzhen 518000

China

Re: EMVCo Letter of Approval - Contact Terminal Level 2

EMV Application Kernel: i80 EMV-LIB Version V4.3k

Approval Number(s): **2-05222-1-1C-ICTK-0623-4.3k**

2-05222-1-1OS-ICTK-0623-4.3k

The EMV Application Kernel has been tested on the following terminal

Terminal: i80 PinPad: n/a

Operating System: 10S = RTOS (32 bit) Version 9.0.0

Renewal Date: 12-Jun-2027

Report ID Session 1: EDT23028 Version 1.0 - ICTK Co., Ltd.

Kernel Checksum:

529983A2

Configurations Checksums:

Config	Vendor Config ID	Terminal	Checksum
1C	EMV BASE	22	931C7A96

Dear Bonny Peng:

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 4.3 of November 2011.

EMVCo hereby grants your Application EMVCo Type Approval for Terminal Level 2, based on the requirements stated in the EMV 4.3 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.

EMVCo, LLC, a Delaware limited liability company

By:

Name: Frédéric Fortin

Title: EMVCo Terminal Testing Group Chair

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									
Card Data Input Capability										
Terminal Type	22									
Manual Key Entry	No									
Magnetic Stripe	Yes									
IC with Contacts	Yes									
CVM Capability	I					II.	II.	II.		<u>I</u>
Plaintext PIN	Yes									
Online Enciphered PIN	Yes									
Signature (Paper)	Yes									
Offline Enciphered PIN	Yes									
No CVM	Yes									
SB185	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	"	1	1	1		l	l	l		11
SDA & DDA	Yes									
Card Capture	No									
CDA	Mode 1									
Transaction Type Capability	The state of the s	1	1	1						1
Tran Type - Cash	Yes									
Tran Type - Goods	Yes									
Tran Type - Services	Yes									
Tran Type - Cash Back	Yes									
Tran Type - Inquiry	Yes									
Tran Type - Transfer	Yes									
Tran Type - Payment	Yes									
Tran Type - Admin	Yes									
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 Capabili	ty							
Print, Attendant	Yes							
Print, Cardholder	No							
Display, Attendant	Yes							
Display, Cardholder	No							
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		1		1	I.	I.	II.	
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		1	1	1	l	l		
MAX CA Public key	248							
Exponents	3 and							
Revocation of Issuer PK Certificate	2^16+1 Yes							
Certificate Revocation List Format	RID+CAPKI							
	NDEX+SN							
Default DDOL	Yes							
Manual act. when CA PK loading fails	Yes							
CA PK verified with check sum	Yes							
Cardholder Verification Method								
Bypass PIN Entry	Yes							
Subsequent Bypass PIN Entry	No							
Get Data for PIN Try Counter	Yes							
Fail CVM	Yes							
Amount known before CVM proces.	Yes							
Terminal Risk Management	V							
Floor Limit Checking	Yes							
Random Transaction Selection	Yes							
Velocity Checking	Yes							
Transaction Log	Yes							
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	Yes						
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?	N/A						
Completion Processing	1	<u>'</u>	I	l.			I
Forced Online	Yes						
Forced Acceptance	No						
Advices	Yes						
Voice Referrals Initiated by Issuer	Yes						
Batch Data Capture	Yes						
Online Data Capture	Yes						
Default TDOL	Yes						
Default TDOL not configured	Yes						
Exception Handling	1	<u>'</u>	I	II.			I
POS Entry Mode	92						
Miscellaneous		,					
Amount and PIN on same keypad	Yes						
ICC/Magstripe Reader Combined	No						
If Combined, is Magstripe read first?	No						
Supports account type selection	No						
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