

Mr. WEIQUAN CAO

HERONG INTELLIGENT EQUIPMENT TECHNOLOGY CO.

LIMITED

Room901, Building 15, Jingdong Road

Yantian, Fenggang Twon, Dongguan City

DONGGUAN 523690

China

Re: EMVCo Letter of Approval - Contact Terminal Level 2

EMV Application Kernel: XDC Version V1.0.0

Approval Number(s): **2-05386-1-1C-BCTS-0424-4.4a**

2-05386-1-2C-BCTS-0424-4.4a 2-05386-1-1P-BCTS-0424-4.4a 2-05386-1-1OS-BCTS-0424-4.4a

The EMV Application Kernel has been tested on the following terminal

Terminal: HE SelfService

PinPad: 1P = SE8098B, SE8098B V1.00 - PIN pad is valid for configuration(s): 1C, 2C

Operating System: **10S = Windows Version 10 64bits**

Renewal Date: 25-Mar-2028

Report ID Session 1: TEMV240T81T Version V1.0 - Beijing Unionpay Card Technology Co., Ltd.

Shenzhen Branch

Kernel Checksum:

68defc71

Configurations Checksums:

Config	Vendor Config ID	Terminal	Checksum
1C	EMV01	15	9C1AFCFA
2C	EMV02	15	D2118987

PIN Pads Checksums:

PinPad	Checksum
1P	N/A

Dear Mr. CAO:

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.

EMVCo, LLC, a Delaware limited liability company

By:

Name: Frédéric Fortin

Title: EMVCo Terminal Testing Group Chair

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	2C						
Card Data Input Capability								
Terminal Type	15	15						
Manual Key Entry	Yes	Yes						
Magnetic Stripe	Yes	Yes						
IC with Contacts	Yes	Yes						
CVM Capability								
Plaintext PIN	Yes	No						
Online Enciphered PIN	Yes	Yes						
Signature (Paper)	No	No						
Offline Enciphered PIN (RSA)	Yes	No						
No CVM	Yes	Yes						
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.		
SDA & DDA	Yes	Yes						
Card Capture	No	No						
CDA	Mode 1	Mode 1						
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	Yes	Yes						
Tran Type - Transfer	Yes	Yes						
Tran Type - Payment	Yes	Yes						
Tran Type - Admin	Yes	Yes						
Tran Type - Cash Deposit	Yes	Yes						
Terminal Data Input Capability	y							
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 Capabilit	:y									
Print, Attendant	No	No								
Print, Cardholder	Yes	Yes								
Display, Attendant	No	No								
Display, Cardholder	Yes	Yes								
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		1		II.	I .	1	1	I .		II.
PSE	Yes	Yes								
Cardholder Confirmation	Yes	Yes								
Preferred display order	No	No								
Partial AID Selection	Yes	Yes								
Multi language	Yes	Yes								
EMV Language Selection method	Yes	Yes								
Common Character Set	Yes	Yes								
Data Authentication				II.						II.
MAX CA Public key	248	248								
Exponents	3 and 2^16+1	3 and 2^16+1								
Revocation of Issuer PK Certificate	No	No								
Certificate Revocation List Format										
Default DDOL	Yes	Yes								
Manual act. when CA PK loading fails	Yes	Yes								
CA PK verified with check sum	Yes	Yes								
Cardholder Verification Method										
Bypass PIN Entry	Yes	Yes								
Subsequent Bypass PIN Entry	No	No								
Get Data for PIN Try Counter	Yes	Yes								
Fail CVM	Yes	Yes								
Amount known before CVM proces.	Yes	Yes								
Terminal Risk Management		1	1	1	1	1	1	1	1	1
Floor Limit Checking	Yes	Yes								
Random Transaction Selection	Yes	Yes								
Velocity Checking	Yes	Yes								
Transaction Log	Yes	Yes								
	Yes	Yes								
Exception File	res	165								

(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	1		1	1	1	l	П	I
Forced Online	No	No						
Forced Acceptance	No	No						
Advices	Yes	Yes						
Voice Referrals Initiated by Issuer	No	No						
Batch Data Capture	No	No						
Online Data Capture	Yes	Yes						
Default TDOL	Yes	Yes						
Default TDOL not configured	Yes	Yes						
Exception Handling							1	
POS Entry Mode	80	80						
Miscellaneous								
Amount and PIN on same keypad	Yes	Yes						
ICC/Magstripe Reader Combined	No	No						
If Combined, is Magstripe read first?	n/a	n/a						
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		