

February 28, 2024

James Chiu

Uniform Industrial Corporation

1F., No.1, Ln. 15, Ziqiang St.

Tucheng Dist.

New Taipei City 236

TAIWAN, PROVINCE OF CHINA

Re: EMVCo Letter of Approval - Contact Terminal Level 2

EMV Application Kernel: EMV Contact L2 Version v2.0

Approval Number(s):
2-05359-1-1C-ICTK-0224-4.4a
2-05359-1-2C-ICTK-0224-4.4a
2-05359-1-1P-ICTK-0224-4.4a
2-05359-1-1OS-ICTK-0224-4.4a

The EMV Application Kernel has been tested on the following terminal

Terminal: Bezel 8

PinPad: 1P = UIC PIN Pad_PINPAD on Desktop Dell inspiron 3671, UIC PIN Pad SW, Version 1.0.0 - PIN pad is valid for configuration(s): 1C

Operating System: 1OS = Linux, 32 bits Version 4.9.30

Renewal Date: 05-Feb-2028

Report ID Session 1: EDT24009 Version 1.0 - ICTK Co., Ltd.

Kernel Checksum:

f8b7ed87

Configurations Checksums:

Config	Vendor Config ID	Terminal	Checksum
1C	1C	25	256048C86000205001
2C	2C	25	256008C86000205001

PIN Pads Checksums:

PinPad	Checksum
1P	

Dear James Chiu:

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).

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	25	25								
Manual Key Entry	No	No								
Magnetic Stripe	Yes	Yes								
IC with Contacts	Yes	Yes								
CVM Capability										
Plaintext PIN	No	No								
Online Enciphered PIN	Yes	No								
Signature (Paper)	No	No								
Offline Enciphered PIN (RSA)	No	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										
SDA & DDA	Yes	Yes								
Card Capture	No	No								
CDA	Mode 1	Mode 1								
Transaction Type Capability										
Tran Type - Cash	No	No								
Tran Type - Goods	Yes	Yes								
Tran Type - Services	Yes	Yes								
Tran Type - Cash Back	No	No								
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	No	No								
Alpha and Special Character Keys	No	No								
Command Keys	Yes	Yes								
Function Keys	No	No								

(continued)	1C	2C								
Terminal Data Output Capability										
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										
PSE	Yes	Yes								
Cardholder Confirmation	No	No								
Preferred display order	No	No								
Partial AID Selection	Yes	Yes								
Multi language	No	No								
EMV Language Selection method	No	No								
Common Character Set	Yes	Yes								
Data Authentication										
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	N/A	N/A								
Default DDOL	Yes	Yes								
Manual act. when CA PK loading fails	No	No								
CA PK verified with check sum	Yes	Yes								
Cardholder Verification Method										
Bypass PIN Entry	No	No								
Subsequent Bypass PIN Entry	No	No								
Get Data for PIN Try Counter	No	No								
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	No	No								
Exception File	No	No								
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	No	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										
Forced Online	No	No								
Forced Acceptance	No	No								
Advices	No	No								
Voice Referrals Initiated by Issuer	No	No								
Batch Data Capture	Yes	Yes								
Online Data Capture	No	No								
Default TDOL	Yes	Yes								
Default TDOL not configured	Yes	Yes								
Exception Handling										
POS Entry Mode	80	80								
Miscellaneous										
Amount and PIN on same keypad	No	No								
ICC/Magstripe Reader Combined	No	No								
If Combined, is Magstripe read first?	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	No	No								
Does the terminal support Receipt?	Yes	Yes								

Attachment 1

Specific Terms and Conditions to the Letter of Approval

Restriction:

None