

July 21, 2023

Mr. Keiji Nogami
OMRON SOFTWARE Co.,Ltd
24-1FURUKAWAKAN BLD.2F
MIBUBOJO-CHO,NAKAGYO-KU
KYOTO 6048804
JAPAN

Re: *EMVCo Letter of Approval - Contact Terminal Level 2*

EMV Application Kernel: 3M8SM-EMV4.3 Version Ver.K

Approval Number(s):
2-05135-1-1C-TUVJ-0123-4.3k
2-05135-1-2C-TUVJ-0123-4.3k
2-05135-1-3C-TUVJ-0123-4.3k
2-05135-2-4C-TUVJ-0723-4.3k
2-05135-1-1P-TUVJ-0123-4.3k
2-05135-1-1OS-TUVJ-0123-4.3k

The EMV Application Kernel has been tested on the following terminal

Terminal: eZSquare
PinPad: 1P = IC-PAD-A, IC-PAD-A 1.1.0 - PIN pad is valid for configuration(s): 1C, 2C, 4C
Operating System: 1OS = Maxim Cobra Version Ver.3.2.0

Renewal Date: 14-Dec-2026

Report ID Session 1: **TYO SMT 73594620-EMV2 Version 2.0 - Tokyo Testing Center**
Session 2: **TYO SMT 735002131-EMV2 Version 1.0 - Tokyo Testing Center**

Kernel Checksum:

c4f399a6

Configurations Checksums:

Config	Vendor Config ID	Terminal	Checksum
1C	AllSupport	25	72BE7270796260373138EDA84DED08DC18B2449A
2C	Standard	25	F1B6E80CD1C36494D6D8B0EA7F8E4DB81BDF24E5
3C	NoCVM	25	85E432040EB847F793B801ED3C3C92962180BAA9
4C	Signature	22	7079DA68BB06A62146DC2980CBF74DA01045D4C2

PIN Pads Checksums:

PinPad	Checksum
1P	

Dear Mr. Nogami:

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 4.3 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

Terminal Capabilities	1C	2C	3C	4C						
Card Data Input Capability										
Terminal Type	25	25	25	22						
Manual Key Entry	No	No	No	No						
Magnetic Stripe	Yes	Yes	Yes	Yes						
IC with Contacts	Yes	Yes	Yes	Yes						
CVM Capability										
Plaintext PIN	Yes	Yes	No	Yes						
Online Enciphered PIN	Yes	No	No	No						
Signature (Paper)	No	No	No	Yes						
Offline Enciphered PIN	Yes	Yes	No	Yes						
No CVM	Yes	Yes	Yes	Yes						
SB185	No	No	No	No						
Offline Finger	No	No	No	No						
Online Finger	No	No	No	No						
Offline Facial	No	No	No	No						
Online Facial	No	No	No	No						
Offline Palm	No	No	No	No						
Online Palm	No	No	No	No						
Offline Iris	No	No	No	No						
Online Iris	No	No	No	No						
Offline Voice	No	No	No	No						
Online Voice	No	No	No	No						
Security Capability										
SDA & DDA	Yes	Yes	Yes	Yes						
Card Capture	Yes	Yes	Yes	Yes						
CDA	Mode 1	Mode 1	Mode 1	Mode 1						
Transaction Type Capability										
Tran Type - Cash	No	No	No	No						
Tran Type - Goods	Yes	Yes	Yes	Yes						
Tran Type - Services	Yes	Yes	Yes	Yes						
Tran Type - Cash Back	No	No	No	No						
Tran Type - Inquiry	No	No	No	No						
Tran Type - Transfer	No	No	No	No						
Tran Type - Payment	No	No	No	No						
Tran Type - Admin	No	No	No	No						
Tran Type - Cash Deposit	No	No	No	No						
Terminal Data Input Capability										
Keypad	Yes	Yes	Yes	Yes						
Numeric Keys	Yes	Yes	Yes	Yes						
Alpha and Special Character Keys	No	No	No	No						
Command Keys	Yes	Yes	Yes	Yes						
Function Keys	No	No	No	No						

(continued)	1C	2C	3C	4C						
Terminal Data Output Capability										
Print, Attendant	No	No	No	Yes						
Print, Cardholder	Yes	Yes	Yes	No						
Display, Attendant	No	No	No	Yes						
Display, Cardholder	Yes	Yes	Yes	Yes						
Code Table 10	No	No	No	No						
Code Table 9	No	No	No	No						
Code Table 8	No	No	No	No						
Code Table 7	No	No	No	No						
Code Table 6	No	No	No	No						
Code Table 5	No	No	No	No						
Code Table 4	No	No	No	No						
Code Table 3	No	No	No	No						
Code Table 2	No	No	No	No						
Code Table 1	No	No	No	No						
Application Selection										
PSE	No	No	No	No						
Cardholder Confirmation	Yes	Yes	Yes	Yes						
Preferred display order	No	No	No	No						
Partial AID Selection	Yes	Yes	Yes	Yes						
Multi language	No	No	No	No						
EMV Language Selection method	No	No	No	No						
Common Character Set	Yes	Yes	Yes	Yes						
Data Authentication										
MAX CA Public key	248	248	248	248						
Exponents	3 and 2 ¹⁶ +1	3 and 2 ¹⁶ +1	3 and 2 ¹⁶ +1	3 and 2 ¹⁶ +1						
Revocation of Issuer PK Certificate	No	No	No	No						
Certificate Revocation List Format	N/A	N/A	N/A	N/A						
Default DDOL	Yes	Yes	Yes	Yes						
Manual act. when CA PK loading fails	No	No	No	No						
CA PK verified with check sum	Yes	Yes	Yes	Yes						
Cardholder Verification Method										
Bypass PIN Entry	Yes	Yes	Yes	Yes						
Subsequent Bypass PIN Entry	Yes	Yes	Yes	Yes						
Get Data for PIN Try Counter	Yes	Yes	Yes	Yes						
Fail CVM	Yes	Yes	Yes	Yes						
Amount known before CVM proces.	Yes	Yes	Yes	Yes						
Terminal Risk Management										
Floor Limit Checking	Yes	Yes	Yes	Yes						
Random Transaction Selection	Yes	Yes	Yes	Yes						
Velocity Checking	Yes	Yes	Yes	Yes						
Transaction Log	No	No	No	No						
Exception File	No	No	No	No						
TRM irrespective of AIP setting (expected behavior)	Yes	Yes	Yes	Yes						

(continued)	1C	2C	3C	4C						
Terminal Action Analysis										
Terminal Action Codes supported	Yes	Yes	Yes	Yes						
TAC can be deleted or disabled	No	No	No	No						
How does offline only Terminal process Default Action Codes?	N/A	N/A	N/A	N/A						
How does online only terminal process TAC/IAC-Default when unable to go online?	N/A	N/A	N/A	N/A						
Completion Processing										
Forced Online	Yes	Yes	Yes	Yes						
Forced Acceptance	No	No	No	No						
Advices	Yes	Yes	Yes	Yes						
Voice Referrals Initiated by Issuer	No	No	No	Yes						
Batch Data Capture	No	No	No	No						
Online Data Capture	No	No	No	No						
Default TDOL	Yes	Yes	Yes	Yes						
Default TDOL not configured	Yes	Yes	Yes	Yes						
Exception Handling										
POS Entry Mode	08	08	08	08						
Miscellaneous										
Amount and PIN on same keypad	No	No	No	No						
ICC/Magstripe Reader Combined	Yes	Yes	Yes	Yes						
If Combined, is Magstripe read first?	No	No	No	No						
Supports account type selection	No	No	No	No						
Supports 'on fly' script processing	No	No	No	No						
Issuer Script device limit > 128 bytes	No	No	No	No						
If limit > 128, value supported?										
Internal Date Management	Yes	Yes	Yes	Yes						
Does the terminal support Receipt?	Yes	Yes	Yes	Yes						

Attachment 1

Specific Terms and Conditions to the Letter of Approval

Restriction:

None