

Date: June 24, 2019



Saul Gorin

Thumbzup UK Limited  
Suite 105 Viglen House  
Alperton Lane  
London HAO 1HD  
UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

**Re: EMVCo Letter of Approval – Contact Terminal Level 1**

**Approval Number: 16605 0619 430 43c 43c TUVJ**

**IFM Identification: tCR2.1 Main PCB** Version: **tCR2.1-2.0.2**

**Hardware: tCR2.1 Main PCB** Version: **V2.0.2**

**Software: EMV MAX32550 Level 1** Version: **V1.6.1 P1**

**As tested in: Payment Pebble tCR2.1 Version 5.1.1**

**Electrical & Mechanical Test Cases: 4.3c** Protocol Test Cases: **4.3c**

**Renewal Date: June 14, 2023**

Dear Saul Gorin,

EMVCo, LLC ("EMVCo"), a Delaware limited liability company, has received your request for Level 1 terminal type approval for the interface module identified above. In connection with your request, we have reviewed your report, identified by file number TYO SMT 73573352-EMV1 Version 1.0 which was generated by Tokyo Testing Center.

After assessing such file, EMVCo has found reasonable evidence that the submitted samples of the above referenced interface module sufficiently conform to EMV Integrated Circuit Card, Specifications for Payment Systems, Version 4.3, November 2011.

EMVCo hereby grants your interface module EMVCo Type Approval for Terminal Level 1, based on the requirements stated in the EMV 4.3 Specifications. Please note that EMVCo may publicly identify your interface module as an approved interface module, including in EMVCo's published list of approved interface modules.

EMVCo's grant to your interface module 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 interface modules published on the EMVCo website ([www.emvco.com](http://www.emvco.com)).

Please note that EMVCo makes certain logos available for use in connection with an interface module 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 Type Approval Chair

**Attachment A**  
**Specific Terms and Conditions to the Letter of Approval**

**Restrictions, if any:**

**Comments, if any:**