PayCert
48 rue Montmartre
75002 Paris
France

Paris, 28 July 2023

Bluebird Inc.
3F, 115, Irwon-ro, Gangnam-gu,
Seoul
Republic of Korea

CEN TS 16794 Compliance Certificate - PCD

A smart Ticketting Alliance certification program

Certificate Number:	CNAPC/PCD-00037
Product/System name:	EF550R (commercial identification)
Compliant with :	CEN/TS 16794-1:2017
Operational temp. range :	Class A (Ambient)

Dear Customer,

The Certification Body PayCert has received a request, submitted by Bluebird Inc., your company, for the Certification of the PCD product EF550R (PCD Hardware version: REV1.3, PCD Software version: v2.8.3), hereafter referred to as the Product and identified above as "EF550R".

In connection with your request, we have received your Implementation Conformance Statement (ICS), referred to as PAY.BLU.PCD.CEN16794.2017.2023-012 dated 19/07/2023 and we have assessed your Test Report(s) (ref. IC.E.RE.2304.005 V1.0 - Analog), which was generated by ICUBE, following the Test Plan "CEN/TS 16794-2:2017".

Based on these elements, as indicated in PayCert's Certification Report (ref. CER/EVR/PIC/2023-103 v1.0.0) the Certification Body has found reasonable evidence that the submitted samples of the Product complies to the CEN/TS 16794-1:2017.

The Certification Body hereby grants the Product Certification of compliance with the requirements stated by the CEN/TS 16794-1:2017 standard and will include your Product in the certified products list, published on PayCert website (www.cna-paycert-certification.com).

Please note that the present Certification is subject to the following terms and conditions as listed hereafter :

   i) The present Certification is granted on the basis of the Smart Ticketing Alliance Certification Policy and therefore is valid as of today and will expire on the 28 July 2030

   ii) If the Product is changed, Bluebird Inc. must notify the Certification Body of this fact in writing. Any change in the Product that may generate a different behaviour with respect to the CEN/TS 16794-1:2017 standard or a difference in the Product Implementation Conformance Statement will be considered a major modification subject to a new evaluation in order to maintain the present Certification.

   iii) The present Certification granted to Bluebird Inc. for the above referenced Product is non-transferable to any other vendor.

The Certification Body has the right to terminate or revoke the Certification should any of the aformentionned terms and conditions be not respected.

Bluebird Inc., Certificate Number: CNAPC/PCD-00037

Name: Ludovic VERECQUE

Title: General Manager

cofrac

CERTIFICATION DE PRODUITS ET SERVICES

Certification / n°5-0563
Portée disponible sur
www.cofrac.fr

a. PCD Product Description

[PCD1] Administrative data

      [PCD1.1] (*) Brand name: EF550R

      [PCD1.2] (*) Trade name: EF550R

      [PCD1.3a] (*) PCD Hardware version: REV1.3

      [PCD1.3b] (*) PCD Software version: v2.8.3

      [PCD1.4] (*) Reference of the contactless reader or antenna module: PN5120AHN

      [PCD1.4a] (*) Hardware version of the contactless reader or antenna module: C3

      [PCD1.4b] (*) Software version of the contactless reader or antenna module: 2.0

      [PCD1.5] (*) EMVCo Approval number (if applicable): Not applicable

The PCD is based on a STA certified PCD (*): Yes

If yes STA PCD certificate number (*): CNAPC/PCD=00002

If yes rationale to justify the delta-certification (*):
[Changed Item] : Antenna, Casing, Model name (EF501 -> EF550R), Android OS version (A7 -> A11).
[Not changed Item] : Firmware, polling sequence, Application, production site.

b. PCD General Technical Characteristics

[PCD2.1] (*) PT Reader Type: IFM Reader (Full range A and B)

[PCD2.2] (*) Transaction supported when more than one PICC in the field: No

[PCD2.3] (*) Operational temperature range supported: Class A (Ambient)

[PCD2.7] (*) Reference of the PCD Zero Point – Range A (target ID marked on sample or photo or
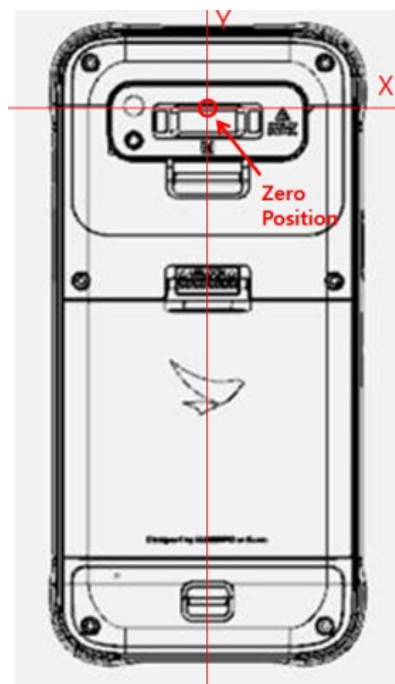
diagram)

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[PCD2.11] (*) Reference of the PCD Zero Point – Range B (target ID marked on sample or photo or diagram)

Same as Range A

c. PCD Supported Options

[PCD3] Protocol characteristics

[PCD3.1] (*) Other supported communication signal interface(s) or protocol(s): Type A, TypeB, Type B'

[PCD4] Type A

[PCD4.1] (*) PCD -> PICC bit rates supported: fc/128 (~106 kbit/s)

Other:

[PCD4.2] (*) PICC -> PCD bit rates supported: fc/128 (~106 kbit/s)

Other:

[PCD5] Type B

[PCD5.1] (*) PCD -> PICC bit rates supported: fc/128 (~106 kbit/s)

Other:

[PCD5.2] (*) PICC -> PCD bit rates supported: fc/128 (~106 kbit/s)

Other:

d. PCD Test Parameters

[PCD6] Test parameters

[PCD6.2c] (*) PCD internal output buffer size (used for Maximum size of UT_APDU): 256 bytes

[PCD6.2d] (*) PCD internal input buffer size (used for Maximum size of response UT_APDU): 256 bytes