



**PayCert**  
48 rue Montmartre  
75002 Paris  
France

Paris, 25. September 2023

Paragon ID  
Parc d'activité de l'Argile, Lot 123 - Voie K, 460 Avenue de Quiera  
06370 Mouans-Sartoux  
France

***CEN TS 16794 Compliance Certificate - PICC***

*A Smart Ticketing Alliance certification program*

Certificate Number: CNAPC/PIC-00044  
Product/System name: TanGO+ Flash Contactless (commercial identification)  
Compliant with : CEN/TS 16794-1:2017  
Operational temp. range : Class I (-10°C to +50°C)  
ISO 14443 antenna class : Class 1  
Protocol supported : Type B

Dear Customer,

The Certification Body PayCert has received a request, submitted by Paragon ID SAS, your company, for the Certification of the PICC product TanGO+ Flash Contactless (IC type: ST31G256, Software: TanGO+ Flash v1 r1, Application Type: Calypso v3.2, Antenna: AK772, Card body: PET, Contactless card), hereafter referred to as the Product and identified above as "TanGO+ Flash Contactless".

In connection with your request, we have received your Implementation Conformance Statement (ICS), referred to as PAY.PRG.PICC.CEN 16794.2017.2023-016 dated 22/09/2023 and we have assessed your Test Report(s) (ref. IC.E.RE.2309.031\_v1.0), which was generated by ICUBE TESTING CENTER, following the Test Plan "CEN/TS 16794-2:2017".

Based on these elements, as indicated in PayCert's Certification Report (ref. CER/EVR/PIC/2023-127 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](http://www.cna-paycert-certification.com)).



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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 25 September 2030.

ii) If the Product is changed, Paragon ID 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 Paragon ID 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 aforementioned terms and conditions be not respected.

Name: Ludovic VERECQUE

Title: General Manager



Accréditation n°5-0563  
Portée disponible sur  
[www.cofrac.fr](http://www.cofrac.fr)



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## a. PICC Product Description

[PICC1] Administrative data

[PICC1.1] (\*) Brand name: TanGO

[PICC1.2] (\*) Trade name: TanGO+ Flash Contactless

[PICC1.3a] (\*) Hardware version: N/A

[PICC1.3b] (\*) Software version: v1 r1

[PICC1.4] (\*) PICC features ISO/IEC 7816 contact interface (dual):  Yes  No

[PICC1.5] (\*) IC manufacturer: ST Microelectronics

[PICC1.6] (\*) IC reference / size: ST31G256 / 256 Kbytes

[PICC1.9] (\*) Type of card body structure: PET

The PICC is based on a STA certified PICC (\*):  Yes  No

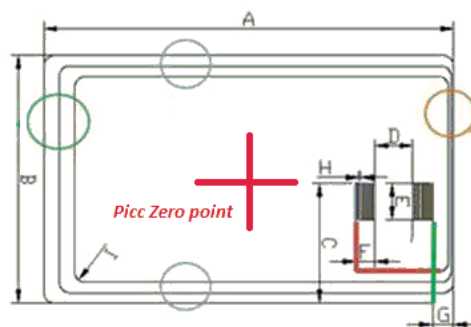
If yes STA PICC certificate number (\*): CNAPC/PIC-00007

If yes rationale to justify the delta-certification (\*): Upgrade from CEN/TS 16794-2:2015 (Edition 1) to Edition 2

## b. PICC General Technical Characteristics

[PICC2] General technical characteristics

[PICC2.2] (\*) Reference of PICC Zero Point (target ID-marked on sample or photo or diagram):



Le PICC Zero point est au centre de l'antenne, donc de la carte

[PICC2.3] (\*) Operational temperature range supported:

- Class A (Ambient)  
 Class I (-10 °C to + 50 °C)

[PICC2.4] (\*) Antenna class according to ISO/IEC 14443:

- Unclassified  "Class 1"  "Class 2"  "Class 3"



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### c. PICC Supported Options

[PICC3] Protocol characteristics

[PICC3.1] (\*) Supported communication signal interface(s) and protocol(s): Type A  Type B   
Other: [Click here to enter text.](#)

[PICC4] Type A (where applicable)

[PICC4.1] (\*) PCD -> PICC bit rates supported:  fc/128 (~106 kbit/s)  
Other: [Click here to enter text.](#)

[PICC4.2] (\*) PICC -> PCD bit rates supported:  fc/128 (~106 kbit/s)  
Other: [Click here to enter text.](#)

[PICC4.3] (\*) Only symmetrical bit rates supported:  Yes  No

[PICC4.5] (\*) UID value:  Fixed number  Random number

[PICC4.11] (\*) S(PARAMETERS) support:  Yes  No

[PICC5] Type B (where applicable)

[PICC5.1] (\*) PCD -> PICC bit rates supported:  fc/128 (~106 kbit/s)  
Other: 212Kbits, 424 Kbits

[PICC5.2] (\*) PICC -> PCD bit rates supported:  fc/128 (~106 kbit/s)  
Other: 212Kbits, 424 Kbits

[PICC5.3] (\*) Only symmetrical bit rates supported:  Yes  No

[PICC5.4] (\*) PUPI value:  Fixed number  Random number

[PICC5.9] (\*) Extended ATQB support:  Yes  No  
If yes, SFGI: 0

[PICC5.10] (\*) S(PARAMETERS) support:  Yes  No

[PICC5.11] (\*) All AFIs are supported:  Yes  No  
If not, indicate all supported AFI(s): 00

[PICC5.12] (\*) REQW/WUPB with N > 1 support:  Yes  No