



**PayCert**  
48 rue Montmartre  
75002 Paris  
France

Paris, 25 October 2024

**ISRA CARDS**  
ZA les Revols, Rue du Vercors  
26540 Mours St Eusèbe  
France

***ISO/IEC TS 24192 Compliance Certificate - PICC***

*A Smart Ticketing Alliance certification program*

Certificate Number: **CNAPC/PIC-00054**

Product/System name: ISTRANSPORT CALYPSO (commercial identification)

Compliant with : ISO/IEC TS 24192-1:2021

Operational temp. range : Class I

ISO 14443 antenna class : Class 1

Protocol supported : Type B

Dear Customer,

The Certification Body CNA-PayCert has received a request, submitted by ISRA CARDS, your company, for the Certification of the PICC product ISTRANSPORT CALYPSO (IC type: ST23ZR08 QQL 8KB, Software: CD21 Rev3.1, Application Type: Calypso rev 3.1, Antenna: A-5963-ISRA from Linxens, Card body: PVC, Dual card), hereafter referred to as the Product and identified above as "ISTRANSPORT CALYPSO".

In connection with your request, we have received your Implementation Conformance Statement (ICS), referred to as PAY.ISR.PIC.ISO24192.2021.2024-021 dated 2024/10/17 and we have assessed your Test Report(s) (ref. IC.E.RE.2407.007 V1.0 (analog), IC.E.RE.2407.008 V1.0 (digital)), which were generated by ICUBE TESTING CENTER, following the Test Plan "ISO/IEC TS 24192-2:2021".

Based on these elements, as indicated in PayCert's Certification Report (ref. CER/EVR/PIC/2024-184 v1.0.0) the Certification Body has found reasonable evidence that the submitted samples of the Product comply to the ISO/IEC TS 24192-1:2021 specification.

The Certification Body hereby grants the Product Certification of compliance with the requirements stated by the ISO/IEC TS 24192-1:2021 standard and will include your Product in the certified products list, published on CNA-PayCert website (<http://cna-paycert-certification.com>).



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Please note that the present Certification (ref. CER/CLE/PIC/2024-197 v1.0.0) 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 24 October 2031.

ii) If the Product is changed, ISRA CARDS 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 ISO/IEC TS 24192-1:2021 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 ISRA CARDS 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: Laurence MASSON

Title: Chief Operating Officer



Accréditation n°5-0673  
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: ISRA CARDS

[PICC1.2] (\*) Trade name: : ISTRANSPORT CALYPSO

[PICC1.3a] (\*) Hardware version: ST23ZR08 Version QQL

[PICC1.3b] (\*) Software version: CD21 Rev3.1

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

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

[PICC1.6] (\*) IC reference / size: ST23ZR08 QQL 8KB

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

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

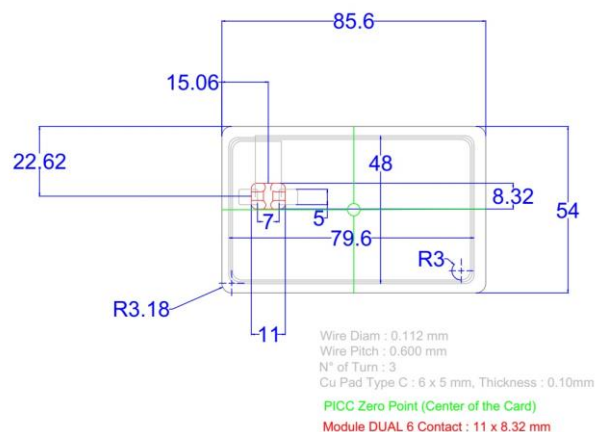
If yes STA PICC certificate number (\*): [Click here to enter text.](#)

If yes rationale to justify the delta-certification (\*): [Click here to enter text.](#)

## 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):



Plan de carte

[PICC2.3] (\*) Operational temperature class supported as defined in Clause 11.2 of ISO/IEC TS 24192-1:2021:

Class A

Class I



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

- "Class 1"     "Class 2"     "Class 3"
- Does not claim to meet the requirements of one particular PICC class

## 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

[PICC4.10] (\*) S(PARAMETERS) support:  Yes  No

[PICC5] Type B (where applicable)

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

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

[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: [Click here to enter text.](#)

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

[PICC5.11] (\*) All AFIs are supported:  Yes  No  
If not, indicate all supported AFI(s): [Click here to enter text.](#)

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