

RF EXPOSURE REPORT

For

INGENICO

9 Avenue de la gare - Rovaltain TGV, BP25156, Valence Cedex 9, 26958, France

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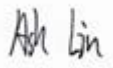
Report Type: Original Report	Product Name: Smart POS Terminal
Report Number:	2607P41361E-RF-07
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Reviewed By:	Ash Lin 
Approved By:	Miles Chen 
Prepared By:	Bay Area Compliance Laboratories Corp. (Xiamen) Unit 102, No. 902 Meifeng South Road, Binhai West Avenue, Science and Technology Innovation Park, Torch High tech Zone XiaMen, People's Republic of China Tel: +86-592-3200111 www.baclcorp.com.cn

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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	2607P41361E-RF-07	R1V1	2026-07-26	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product Name:	Smart POS Terminal
Tested Model:	AXIUM DX8
Multiple Model(s):	N/A
Trade Mark:	ingenico
Power Supply:	DC 5V from Adapter or DC 7.2V from Battery
Frequency Range:	NFC: 13.56MHz BT:2402-2480MHz
Antenna Type:	NFC: Loop Antenna BT: IFA Antenna
EUT Received Status:	Good

Note:

1. The EUT contains a variety of configurations, the difference of the configurations show as below:

Model	Configuration	Configuration Difference	
		2 nd display	scanner
AXIUM DX8	1 (Scanner variant)	×	√
	2 (2 nd display variant)	√	×
	3 (Basic variant)	×	×

2. The EUT supplied by the applicant was received on 2026-01-12.

Adapter Information:

No.	Model	Manufacturer	Parameters
Adapter 1# (KLEC - EU/UK/US)	KL-WD050200U	Xiamen Keli Electronics Co.,Ltd	Input: AC 100-240V, 50/60Hz, 0.5A Output: DC 5.0V, 2.0A, 10.0W
Adapter 2# (KLEC - US)	SW-0983	Xiamen Keli Electronics Co.,Ltd	Input: AC 100-240V, 50/60Hz, 0.5A Output: DC 5.0V, 2.0A
Adapter 3# (Aohai - US)	A319-050200U-US2	Jiangxi Aohai Technology Co.,Ltd	Input: AC 100-240V, 50/60Hz, Max 0.3A Output: DC 5.0V, 2.0A
Adapter 4# (KEYU - EU/UK/US)	KA1602-0502000DEU	Shenzhen Keyu Power Supply Technology Co.,Ltd.	Input: AC 100-240V, 50/60Hz, 0.35A Output: DC 5.0V, 2.0A, 10.0W
Adapter 5# (Ktec - EU/UK/US)	KSA-10Q-050200D5U	KTEC GLOBAL Co., Ltd.	Input: AC 100-240V, 50/60Hz, 0.5A Output: DC 5.0V, 2.0A, 10.0W

Battery Information:

No.	Model	Manufacturer	Specification
Battery 1#	LD18650M	SCUD (Fujian) Electronics Co.,Ltd	DC 7.2V 2600mAh/18.72Wh
Battery 2#	LD18650K	SCUD (Fujian) Electronics Co.,Ltd	DC 7.2V 3400mAh/24.48Wh
Battery 3#	LD18650K-1	SCUD (Fujian) Electronics Co.,Ltd	DC 7.2V 3350mAh/24.12Wh
Battery 4#	LD18650M	Xinyu Ganfeng Electronics Co.,Ltd.	DC 7.2V 2600mAh/18.72Wh
Battery 5#	LD18650K-1	Xinyu Ganfeng Electronics Co.,Ltd.	DC 7.2V 3350mAh/24.12Wh
Battery 6#	LD18650M	Dongguan Veken Battery Co., Ltd.	DC 7.2V 2600mAh/18.72Wh

Screen Information:

No.	Ingenico Model	Manufacturer
Screen 1#	MDT0656A	Shenzhen Great Prospect Optoelectronics Co.,Ltd.
Screen 2#	MDT0656A	Tianma Microelectronics Co., Ltd.
Screen 3#	MDT0656A	GuangDonghongbosheng Optoelectronic Technology Co;Ltd

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Xiamen) to collect test data is located on Unit 102, No. 902 Meifeng South Road, Binhai West Avenue Science and Technology Innovation Park, Torch High Tech Zone Xiamen, People's Republic of China.

RF EXPOSURE EVALUATION

Applicable Standard

According to §2.1093, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline

According to KDB447498 D01 General RF Exposure Guidance v06

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances < 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] - [\sqrt{f(\text{GHz})}] < 3.0$ for 1-g SAR and < 7.5 for 10-g extremity SAR, where

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C):

- 1) For test separation distances > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by $[1 + \log(100/f(\text{MHz}))]$
- 2) For test separation distances ≤ 50 mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$
- 3) SAR measurement procedures are not established below 100 MHz.

Measurement Result

For NFC, the power of EUT: E Field@3m is 80.04 dBuV/m = -15.16dBm (0.03mW)

Note: $E[\text{dBuV/m}] = \text{EIRP}[\text{dBm}] + 95.2$ for $d = 3 \text{ m}$.

SAR test exclusion threshold for NFC(13.56MHz) separation distance $< 50\text{mm}$

$$= [474 * (1 + \log(100/f(\text{MHz}))) / 2]$$

$$= 443\text{mW}$$

$$> 0.03\text{mW}$$

For BT, The max conducted power including tune-up tolerance is 9.0 dBm (7.94 mW).

$$[(\text{max. power of channel, mW}) / (\text{min. test separation distance, mm})] [\sqrt{f(\text{GHz})}]$$

$$= 7.94 / 5 * (\sqrt{2.480}) = 2.5 < 3.0$$

Note: The max conducted power including tune-up tolerance is provided by applicant.

Result: Compliant. The stand-alone SAR evaluation is not necessary

EUT PHOTOGRAPHS

Please refer to the attachment 2607P41361E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2607P41361E-RF-INP EUT INTERNAL PHOTOGRAPHS.

Declarations

1. Bay Area Compliance Laboratories Corp. (Xiamen) is not responsible for authenticity of any information provided by the applicant. Information from the applicant that may affect test results are marked with an asterisk “★”.
2. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.
3. Unless required by the rule provided by the applicant or product regulations, then decision rule in this report did not consider the uncertainty.
4. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor k with the 95% confidence interval.
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******* END OF REPORT *******