LCIE
Laboratoire de Moirans
Z.I. Centr'Alp
170, Rue de Chatagnon
38430 MOIRANS-FRANCE

GENERAL INFORMATION

FCCID: **XKB-IUC16XCL**

1.1. Product description

ingenico
Smart terminals

TECHNICAL DATASHEET

iUC160B

Product Reference: IUC160-01P3177A
Designation: Stand-alone contactless card reader

FEATURE			
Processor	Application & Crypto processor	RISC 32 bits – ARM9 – 450 MIPS RISC 32 bits – ARM7 – 50 MIPS	O O
Memory	Internal External	32 MB RAM, 128 MB Flash MicroSD up to 32GB	O O
SAM		2 SAM	O
Card readers	NFC/Contactless	EMV Level 1 compliant ISO 14443 A/B Calypso rev3 type A/B/B' Mifare (Classic, Mifare Plus, Desfire; 1K, 4K, Ultralight) NFC (reader mode)	O O O O O
Audio	Buzzer	Mono	O
Customization		Non possible on this device	
Terminal connections	USB Serial PIN for wake up	1 USB Slave (JST connector) Serial + wake up link Dedicated 2 pins connector	O O O
Power supply	External power supply Standby mode	5V by USB slave	O O
Accessories (provided)	Cable	JST to USB-A (30 cm) included Silicon cable holder	O O
Terminal size	Overall W x H x D mm Cut area W x H x D mm	73 x 61 x 30 mm 73 x 61	
Weight		102 gr	
Environment	Operating Temperature Storage Temperature Operating Humidity non condensing	-20°C to +70°C -20°C to +70°C 5 to 95% HR at +55°C	
IP	Ingress protection	IP 65	
IK	Shock protection	IK 10	
Security	PCI PTS	4..0	
Configuration management	Can be managed by : Can manage :	Non Telium 2 intelligence (eg : PC, i9500…) None	

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1.2. Tested System Details

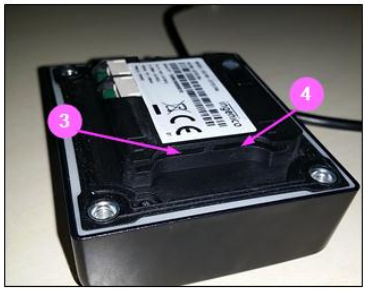
Equipment under test (EUT):

Photography of EUT

Power supply:

During all the tests, EUT is supplied by V_{nom}: 5VDC
For measurement with different voltage, it will be presented in test method.

Name	Type	Rating	Reference / Sn	Comments
Supply1	☐ AC ☑ DC ☐ Battery USB From Laptop	5V – 500mA	-	-



Inputs/outputs - Cable					
Access	**Type**	**Length used (m)**	**Declared <3m**	**Shielded**	**Under test**
Access1	USB power supply	2	☑	☑	☑
Access2	COM0 RS232	2	☑	☐	☑
Access3	SAM2	/	☐	☐	☑
Access4	SAM1	/	☐	☐	☑
Access5	µSD Card – MMC	/	☐	☐	☑
Access6	Wake Up (2 Wires)	0.3	☑	☐	☑

Auxiliary equipment used during test			
Type	**Reference**	**Sn**	**Comments**
Laptop LENOVO	8896-2FG	L3-B7463	

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Equipment information:

RF module:	NC			
Frequency band:	[13.553–13.567] MHz			
Sub-band REC7003:	Annexe g(f)			
RF mode:	☐Transmitter	☑Transceiver	☐Receiver	☐Standby
Product class § 7.1.4	☑1	☐2	☐3	
Receiver classification § 4.1.1	☐1	☑2	☐3	
Antenna type:	☐External:		☑Internal:	
Antenna gain:	NC			
Extreme temperature range:	☑Category I (General) -20°C to +55°C Performed at-30°C to +70°C	☐Category II (Portable) -10°C to +55°C	☐Category III (Indoor) +5°C to +35°C	
Extreme test source voltage:	☐±10%:		☑other: 5V – 5.5Vdc	

NC : Not communicated by customer

1.3. Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4, FCC Part 15 Subpart C.
Radiated testing was performed at an antenna to EUT distance of 10 meters. During testing, all equipment's and cables were moved relative to each other in order to identify the worst case set-up.

1.4. Test facility

Tests have been performed on from September 18th to 28th, 2015.

This test facility has been fully described in a report and accepted by FCC as compliant with the radiated and AC line conducted test site criteria in ANSI C63.4 (registration number 94821).
This test facility has also been accredited by COFRAC (French accreditation authority for European Union test lab accreditation organization) according to NF EN ISO/IEC 17025, accreditation number 1-1633 as compliant with test site criteria and competence in 47 CFR Part 15/ANSI C63.4 and EN55022/CISPR22 norms for 89/336/EEC European EMC Directive application. All pertinent data for this test facility remains unchanged.