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

GENERAL INFORMATION

FCCID: XKB-IMP3X2

1.1. Product description



Choose your mobile point of sales.

Ingenico provides the secure payment companion.

Free customer experience by providing retailers with secure payment for any innovative mobile point of sales: tablet, smartphone or PDA.

- Streamline checkout
- Increase revenue anywhere
- Design unique & customized customer experience



www.ingenico.com



Security

Smartcard

Magstripe

Signature Lapture

Contactless





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iSMP Companion



- Bluetooth connectivity**
 Embedded Bluetooth® technology to easily connect to an open world of Tablet or PDA
- Universal Payment Platform**
 iSMP accepts all forms of payments: EMV Chip & PIN, magstripe and contactless. iSMP is based on Telium2, Ingenico's highly secure payment platform and is compatible with its existing worldwide portfolio of payment applications. iSMP meets all security & payment standards: EMV, PCI PTS, Paypass, payWave...
- Integrated 1D/2D barcode reader**
 Integrating a high-end 1D/2D barcode reader, iSMP meets the most demanding professional needs such as scanning multiple items or loyalty customer scheme coupons (barcodes, QR codes).
- Long lasting battery life**
 Equipped with a lithium-ion (1150 mAh) battery, the iSMP works over one day non-stop, even in the most demanding retail use cases.



Main Processor	RISC 32-bits ARM9 processor - 380 MHz - 450 MIPS
Crypto Processor	RISC 32-bits ARM7 processor - 57 MHz - 50 MIPS
Memory	SDRAM: 32Mb - Flash: 128Mb
OS	Telium2
SAM/SIM slots	None
Smart card reader	ISO7816 EMV L1 certified
Magnetic card reader	ISO 7810, 7811 and 7813 Track 1/2/3
Contactless reader	ISO 1443 A&B
LEDs for contactless	Yes - green or multicolor for Visawave support
iOS compatibility	Yes via Bluetooth
Display	Black and white, backlit 128x64 full graphic
Keypad	16 keys + 4 functions keys
Buzzer	Yes
Terminal Connectivity	Bluetooth class II
USB	Micro-USB B Slave
Barcode reader	Optional - 1D/2D - all major standards supported
Battery	Li-ion - 1150mAh
Dimensions	132x72x28 mm (l x w x h)
Weight	208g without barcode reader 214g with barcode reader
Environment	Operating temperature: +5°C to +40°C Storage temperature: -20° to +55°C Operating humidity: 85% RH at +40°C
Certification	PCI PTS 2.x, PCI PTS 3.x, SRED, Interac, APACS CC, CECS CE, FCC, IC, UL, EMV L1, EMV L2 PayPass 2.1, payWave 2.1.1, VisaWave, Expresspay 2.x, Discover Zip
Power supply	Multi-plug EU/US/UK via µUSB

Data sheet of equipment



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1.2. Tested System Details

There are different hardware versions (with or without barcode) with different activation software:

- IMP322-01T2004A (No barcode / With Contact less / With Bluetooth)
- IMP352-01T2005A (With barcode / With Contact less / With Bluetooth) Full options (EUT)

For this report the Full option is tested because the others hardware versions are the same family range.



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	Part number / Model	Comments
Supply1	<input checked="" type="checkbox"/> AC <input type="checkbox"/> DC <input type="checkbox"/> Battery	100-240VAC to 5VDC, 50-60Hz and 300mA to 1A	192049372 / PSM05R-050I	Used in configuration 1 (see §2.2)
Supply2	<input checked="" type="checkbox"/> AC <input type="checkbox"/> DC <input type="checkbox"/> Battery	100-240VAC to 5VDC, 50-60Hz and 300mA to 2A	192050007 / PSM05R-050I	Used in configuration 2 (see §2.2)
Battery	<input type="checkbox"/> AC <input type="checkbox"/> DC <input checked="" type="checkbox"/> Battery	3.7Vdc	296118442	Internal



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Inputs/outputs - Cable:

Access	Type	Length used (m)	Declared <3m	Shielded	Under test	Comments
Supply1	Mini USB	1.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-
Supply2	Jack	1.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-
Access1	COM 0	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-

Auxiliary equipment used during test:

Type	Reference	Sn	Comments
Ipod	Touch	-	-
Contact less Card	-	-	-
COM 0 Card	-	-	-

Equipment information:

Bluetooth Classic Type:	<input type="checkbox"/> v1.2	<input type="checkbox"/> v2.0	<input checked="" type="checkbox"/> v2.1+EDR	<input type="checkbox"/> v3.0+HS
	<input type="checkbox"/> v4.0	<input type="checkbox"/> v4.1	<input type="checkbox"/> v4.2	
Frequency band:	[2400 – 2483.5] MHz			
Spectrum Modulation:	<input checked="" type="checkbox"/> FHSS			
Number of Channel:	Maximum:	79	Minimum:	20
Spacing channel:	1MHz			
Channel bandwidth:	1MHz			
Antenna Type:	<input checked="" type="checkbox"/> Integral	<input type="checkbox"/> External	<input type="checkbox"/> Dedicated	
Antenna connector:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Temporary for test	
Transmit chains:	<input checked="" type="checkbox"/> 1			
	Single antenna			
	Gain 1: 0dBi		Gain 2: XdBi	
Beam forming gain:	No			
Receiver chains:	1			
Ad-Hoc mode:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Dwell time:	400ms			
Duty cycle:	<input checked="" type="checkbox"/> Continuous duty	<input type="checkbox"/> Intermittent duty	<input type="checkbox"/> 100% duty	
Equipment type:	<input checked="" type="checkbox"/> Production model		<input type="checkbox"/> Pre-production model	
Type of power source:	<input checked="" type="checkbox"/> AC power supply	<input type="checkbox"/> DC power supply	<input type="checkbox"/> Battery	
Operating voltage range:	Vnom:	<input checked="" type="checkbox"/> 230V/50Hz	<input type="checkbox"/> XVdc	

Equipment information:

RF module:				
Frequency band:	<input checked="" type="checkbox"/> [13.553–13.567]MHz	<input type="checkbox"/> [125]kHz	<input type="checkbox"/> Other:[-]MHz	
RF mode:	<input type="checkbox"/> Transmitter	<input checked="" type="checkbox"/> Transceiver	<input type="checkbox"/> Receiver	<input type="checkbox"/> Standby
Type:	<input checked="" type="checkbox"/> RFID	<input type="checkbox"/> EAS	<input type="checkbox"/> WPT	<input type="checkbox"/> Other:
Bandwidth:	<input checked="" type="checkbox"/> Narrowband (ISO15693, ISO18000-3...)		<input type="checkbox"/> Wideband (ISO14443, NFC...)	
Antenna type:	<input type="checkbox"/> External:		<input checked="" type="checkbox"/> Internal:	
Antenna gain:	0dBi			
Type of equipment:	<input checked="" type="checkbox"/> Stand-alone	<input type="checkbox"/> Plug-in	<input type="checkbox"/> Combined	
Duty cycle:	<input checked="" type="checkbox"/> Continuous duty	<input type="checkbox"/> Intermittent duty	<input type="checkbox"/> 100% duty	



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1.3. Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 or ANSI C63.10, 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 **January 11th to 18th, 2016**.

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 and ANSI C63.10 (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.