

OPERATIONAL DESCRIPTION

1.1. EUT description

iSMP Companion



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**



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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



1.2. Related Submittal(s) / Grant(s)

All host equipment used in the test configuration are FCC granted, when relevant.

1.3. Tested System Details

The system was configured for testing in a typical fashion (as a customer would normally use it). All configurations of EUT is considered, worst cases are presented in this test report.

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

- **IMP322-01T2004A** (*No barcode / With Contact less / With Bluetooth*)
 - **IMP322-01T2067A** (*Contactless and IAP chip not activated*)
 - **IMP322-01T2091A** (*Contactless not activated*)
 - **IMP322-01T2092A** (*IAP chip not activated*)
- **IMP352-01T2005A** (*With barcode / With Contact less / With Bluetooth*) **Full options (EUT)**
 - **IMP352-01T2093A** (*Contactless not activated*)

- **Power supply:**

- **Base with power supply adaptor:**

PHIHONG PSC12R-050, 100-240VAC / 5A / 50-60Hz, output 5VDC / 2A, Sn: 192014382.

- **Micro USB power supply adaptor:**

PHIHONG PSAC05R-050, 100-240VAC / 300mA / 50-60Hz, output 5VDC / 1A, Sn: 192011352.

- **Battery Lithium Ion 3.7VDC**

- **Internal max frequencies:**

- Clock: 400MHz
- RFID 13.56MHz
- Bluetooth: 2400-2483.5MHz

- **Input/output:**

- 2 x Power supply contacts (Base and Terminal)
- 1 x Mini USB, only used for recharge with power supply PHIHONG PSAC05R-050

- **Cables:**

- None

- **Auxiliaries equipment used during test:**

- 1 x IMP300-BCSN1476A (Base), FCCID: XKB-IMP3XXCX, Sn: 11208KT60000910

- **Functions:**

- 1 x Contact less RFID reader at 13.56MHz, disabled during the recharge, tested only in configuration n°2.
- 1 x Bluetooth at 2400-2483.5MHz, always ON.
- 1 x Barcode, disabled during the recharge, tested only in configuration n°2.
- 1 x Contact card reader, disabled during the recharge, tested only in configuration n°2.

