

## GENERAL INFORMATION

**FCCID: KKB-IUC15ZCL**

### 1.1. Product description

The iSelf series allows easy and secure integration of cashless payment into self-service businesses, while providing a simple consumer experience through an easy-to-use interface.

#### Highest Security Levels

PCI-PTS certified, both iUP250, iUR250 and iUC150B (PCI PTS 4.x) meet the highest and latest hardware and software mandatory security requirements. The iUP250 also complies with open protocol and SRED modules.

#### All Payment Options

The iUP250 + iUR250 enable EMV Chip and PIN, MagStripe transactions on kiosks while respecting security standards and improving customer interactivity. Transactions are simpler, faster and more secure.

#### Contactless Acceptance

The iUC150B offers contactless payment, enabling e-wallet and new payment use cases. It also complies with standards such as MasterCard PayPass™, Visa PayWave™ and EMV contactless cards.

#### Highly Ruggedized

Thanks to its robust design the iSelf series stands up to the most demanding outdoor environments and a wide variety of adverse environmental conditions. Keypad, card-reader and contactless device components are proofed against vandalism (IK10) and extreme weather.

#### Telium 2 Technology

Powered by Ingenico, Telium2 Technology is the result of 30 years' experience in the payment industry. Secure, highly integrated and fast, Telium is the world's best platform to provide payment services. It provides a fully scalable, reliable operating system embedded into the 20 million terminals deployed worldwide.

#### Easy Integration

Our compact and modular iSelf series devices are embedded in their enclosure and integrated according to EVA\* / IMB\*\* market standards. iUC150B is the most compact device on the market. An easy mounting for iUC150B, either fully outside, or inside with CDM or SDM EVA plate. Maintenance requires no additional equipment and updating is done simply with the iUP250 display and keypad. It is so flexible that interfacing with the entire kiosk system has never been so easy.

#### User-friendly

The iSelf series provides a simple and easy-to-use customer interface with brightly colored backlit displays, LEDs and function keys, making their use a pleasurable experience. Transflective technology enables the iSelf series to work in any lighting condition

#### Flexible Communication and Connectivity

The iSelf series provides a wide range of integrated connectivity features to communicate with kiosks and acquirer hosts. It includes USB (slave, master), RS232, MDB (slave, optional master), Ethernet and optional GPRS, covering most kiosk system requirements.

#### Eco-friendly

Stand-by mode guarantees optimal energy efficiency. Ingenico is a reference in safeguarding the environment. Our manufacturing facilities are ISO 14001 certified.

\* European Vending Association

\*\* International Metallic Bezel



iSelf series		iUP250 Intelligent PIN entry device	iUR250 Slave contact reader	iUC150B Slave Contactless reader
Processor	Type	Risc 32-bits ARM9 Risc 32-bits ARM7	Risc 32-bits ARM7	Risc 32-bits ARM7
	Speed	450 MIPS + 50 MIPS	50 MIPS	50 MIPS
Memory	RAM/Flash	16MB/128MB	96Kb/512Kb	96KB + 512KB
Removable	µSD Card	1		
Communication mode	GPRS	Option		
	Ethernet	•		
	Bluetooth	Option		
SAM		2		
SIM		Option		
Card readers	Smart card		•	
	Magstripe		ISO 1/2/3	
	Hybrid		•	
	Contactless			ISO 14443 A/B
Display	Graphic 128 x 64 pixels	•		
	Backlit RGB	•		
	Black & white	•		
Keyboard	Number of keys	15+2		
	Key texture	Metallic		
Buzzer		•	•	•
Connections	RS232	1 or 2		
	USB Host	4		
	USB Slave	1	1	1
	MDB Slave	•		
	MDB Master	Option		
Power supply	External power supply	12V-30V DC	5V by USB Slave	5V by USB Slave
	Stand by mode	•	•	•
Size	Overall W x H x D mm	120 x 132 x 45	72 x 108 x 140	73 x 61 x 23
	Cut area W x H mm	107 x 85	74 x 62	73 x 61
Weight		620g	700g	90g
Environment	Operating temperature	-20°C to +65°C	-20°C to +65°C	-20°C to +65°C
	Storage temperature	-20°C to +65°C	-20°C to +65°C	-20°C to +65°C
	Relative humidity, non condensing	90% HR at +55°C	90% HR at +55°C	90% HR at +55°C
IP	Ingress protection	IP65	IP34	IP65
IK	Shock protection	IK10	IK10	IK10
PCI PTS		3.x	3.x	4.x

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Smart terminals

Data sheet of equipment



## 1.2. Tested System Details

### 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	<input type="checkbox"/> AC <input checked="" type="checkbox"/> DC <input type="checkbox"/> Battery	5VDC	-	-

### Inputs/outputs – Cable:

Access	Type	Length used (m)	Declared <3m	Shielded	Under test	Comments
Access1	USB	2, 1 or 0.2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	See EUT configuration §2.2
Access2	RS232	1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-
Access3	Weak-UP	0.3	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-

### Auxiliary equipment used during test:

Type	Reference	Sn	Comments
Contactless Card	-	-	-
Antenna Loop	C2040052	-	-
Spectrum Analyser	A4060049	-	-
Laptop	DELL	-	-

<b>RF module:</b>	NC		
<b>Frequency band:</b>	[13.553-13.567] MHz		
<b>Sub-band REC7003:</b>	Annex 9 f1		
<b>RF mode:</b>	<input type="checkbox"/> Transmitter	<input checked="" type="checkbox"/> Transceiver	<input type="checkbox"/> Receiver <input type="checkbox"/> Standby
<b>Product class § 7.1.4</b>	<input type="checkbox"/> 1	<input checked="" type="checkbox"/> 2	<input type="checkbox"/> 3
<b>Antenna type:</b>	<input type="checkbox"/> External:		<input checked="" type="checkbox"/> Internal:
<b>Antenna gain:</b>	NC dBi		
<b>Extreme temperature range:</b>	<input checked="" type="checkbox"/> Category: -30°C to +55°C		
<b>Extreme test source voltage:</b>	<input type="checkbox"/> ±10%:		<input checked="" type="checkbox"/> other: $V_{min}$ 4.75 VDC $V_{max}$ 5.25VDC

### EUT configuration

Firmware / Software version of EUT: NC

There are 2 configurations tests:

- Configuration 1:  
The EUT is tested and powered by USB cable (Laptop Dell). The USB cable length is 0.2m. The reading "Cless" is activated. The others accesses are linked (RS232 and Weak-Up)
- Configuration 2:  
The EUT is tested and powered by USB cable (Laptop Dell). The USB cable length is 2m. The reading "Cless" is activated. The others accesses are linked (RS232 and Weak-Up)

The configuration with the 1 meter USB cable is not tested. The USB cables (extreme category) 0.2 and 2 meters are tested in pre-characterization.

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### **1.3. Test Methodology**

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4-2003, 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 June 19th to 30th, 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 C63.4-2003 in a letter dated March 25<sup>th</sup>, 2008 (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.