

GENERAL INFORMATION

FCCID: XKB-FIT111CL

1.1. Product description

ingenico Smart terminals

TECHNICAL DATASHEET

FIT111CL

Received

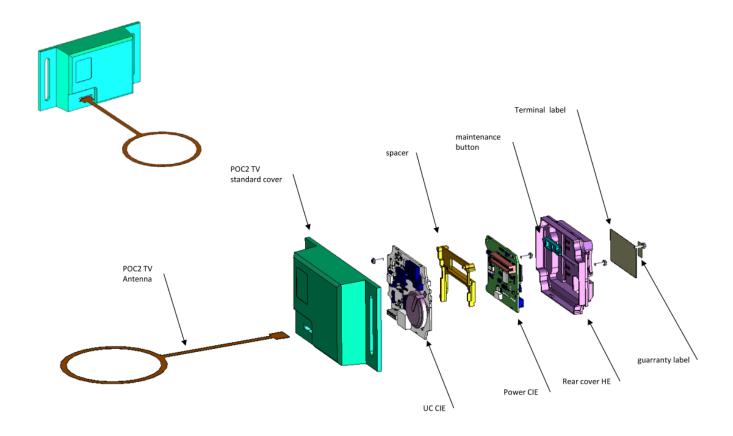
Designation:

Embedded Stand-alone contactless card reader

FEATURE			
Processor	Application & Crypto processor	RISC 32 bits – ARM9 – 450 MIPS RISC 32 bits – ARM7 – 50 MIPS	0
Memory	Internal External	32 MB RAM, 128 MB Flash MicroSD up to 32GB	0
SAM		2 SAM	0
Card readers	NFC/Contactless	EMV Level 1 compliant ISO 14443 A/B	0
		Calypso rev3 type A/B/B' Mifare (Classic, Mifare Plus, Desfire; 1K, 4K, Ultralight) NFC (reader mode)	0 0
Audio	Buzzer	Mono	0
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	0 0
Power supply	External power supply Standby mode	5V by USB slave	0
Accessories (provided)	Cable	JST to USB-A (30 cm) included Silicon cable holder	0
Terminal size (W/O Antenna)	Overall W x H x D mm maxi	106 x 59 x 25 mm	•
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	
Security	PCIPTS	40	
Configuration management	Can be managed by :	Non Telium 2 intelligence (eg : PC, i9500)	
	Can manage :	None	

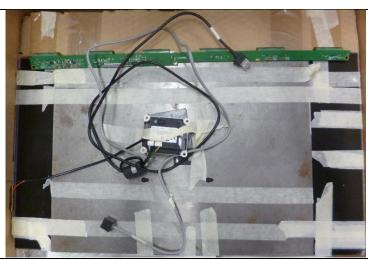


FIT111 CL





1.2. Tested System Details



Equipment Under Test

Power supply:

During all the tests, EUT is supplied by V_{nom}: 5VDC (USB Port) & 120V / 60Hz Main power supply IBM Laptop (Thinkpad)

For measurement with different voltage, it will be presented in test method.

Name	Туре	Rating	Reference / Sn	Comments
Supply1	☐ AC ☑ DC ☐ Battery	5VDC	-	-

Inputs/outputs - Cable:

Access	Туре	Length used (m)	Declared <3m	Shielded	Under test	Comments
Supply1	USB	1.15				-
Access1	RS232	1.0	\square			-
Access2	Wake up	0.2	Ø			-

Auxiliary equipment used during test:

Туре	Reference	Sn
Contactless Card	-	-
IBM Laptop	Thinkpad	-
IBM Laptop power supply	IBMP 90W 20V	11S922P1103Z1ZACP5BE0EV Rev02



Equipment information:

Frequency band:	☑ [13.553–13.567]	553–13.567]MHz □ [12		5]kHz □		[-] MHz
RF mode:	☐ Transmitter	\checkmark	☑ Transceiver ☐ Receiver ☐ Stand		☐ Standby	
Type:	☑ RFID	☐ EAS ☐ Other:				
Channelized system:	☑ No	☐ Yes, channel spacing: kHz				
Equipment intended for use as a		☐ Mobile		obile	□ Portable	
Type of equipment:		e 🗆 Plug		ug-in ☐ Combined		☐ Combined
Antenna Type:	□ Ext	ternal 🗹 Internal		ernal		
Antenna connector:	☐ Permanent external	☐ Permanent internal		✓ None ☐ Temporary (only for tests)		
Antenna Gain:	0dBi					
Duty cycle:	☐ Continuous duty		☐ Intermittent duty		☑ Continuous operation	
Equipment type:	☐ Production model					
Type of power source:	☐ AC power supply ☑		☑ DC power supply		☐ Battery	
	Vmin:		□ 207V/50Hz		☑ 4.75 VDC	
Test source voltage:	Vnom:		☐ 230V/50Hz		☑ 5.00 VDC	
	Vmax		☐ 253V/50Hz		☑ 5.25 VDC	
	Tmin:		☑ -30°C	□ 0°C		□ °C
Temperature range:	Tnom:		20°C			
	Tmax:		□ 35°C	☑ 50°C	;	□ °C

A continuous reading process is performed between EUT and Contact less Card through RFID Protocol.

Hardware information					
Software (if applicable):	V. :	8200362104			

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 from November 8, 2016 to December 14, 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.