



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

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GENERAL INFORMATION

FCCID: XKB-SELFADDON

1.1. Product description

ingenico
Smart terminals

TECHNICAL DATASHEET

Self/045X ADD ON RADIO box

Designation: Addon Radio Module to Self/xxxx terminals
Self/0450 : BT + 4G Europe
Self/0451 : BT + 4G North America
Self/0452 : BT + 4G Australia
Recommended use: Vending, carwash, EV Charging, Kiosk....



FEATURE			
Add-on box for Self devices	Takes place in slot #2		○
Cellular module	4G, 3G, 2G	ELS81-US for SELF/0451	○
Bluetooth module	Bluetooth +EDR		○
Add-on box connections	cellular Bluetooth	2x SMA connector for antennas 1x SMA connector for antenna	○ ○
SIM port	Dual SIM		○
Module size	Overall W x H x D mm	25 x 46 x 69 mm	
Module mounting	On the rear of the Self terminal		
Weight	39 gr		
Environment	Operating Temperature Storage Temperature Operating Humidity non condensing	-20°C to +70°C -20°C to +70°C 95% HR at +55°C	
Material	Plastic	Compliant fire & smoke standard	
Terminal compatibility	Self/2000		○
	Self/4000		○
	Self/5000		○
Accessories (provided)		2 screws for fixation	○
Accessories (not provided)	External antennas	Cellular, Bluetooth	option



• SEAMLESS PAYMENT

Data sheet of equipment



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1.2. Tested System Details

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 type="checkbox"/> Integral	<input checked="" type="checkbox"/> External	<input type="checkbox"/> Dedicated	
Antenna connector:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Temporary for test	
	1			
Transmit chains:	Single antenna			
	Gain: 0.56dBi			
Beam forming gain:	No			
Receiver chains	1			
Type of equipment:	<input checked="" type="checkbox"/> Stand-alone	<input type="checkbox"/> Plug-in	<input type="checkbox"/> Combined	
Ad-Hoc mode:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> 100% duty	
Duty cycle:	<input checked="" type="checkbox"/> Continuous duty	<input type="checkbox"/> Intermittent duty	<input type="checkbox"/> Pre-production model	
Equipment type:	<input checked="" type="checkbox"/> Production model	<input type="checkbox"/> Pre-production model	<input type="checkbox"/> Test model	
Operating temperature range:	<i>Tmin</i> : <i>Tnom</i> : <i>Tmax</i> :	<input checked="" type="checkbox"/> -20°C	<input type="checkbox"/> 0°C	<input type="checkbox"/> °C
		<input type="checkbox"/> 20°C	<input type="checkbox"/> 55°C	<input checked="" type="checkbox"/> 65°C
Type of power source:	<input type="checkbox"/> AC power supply	<input checked="" type="checkbox"/> DC power supply	<input type="checkbox"/> Battery	
Operating voltage range:	<i>Vnom</i> :	<input type="checkbox"/> 230V/50Hz	<input type="checkbox"/> 28Vdc	

CHANNEL PLAN					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
<i>Cmin</i> : 0	2402	27	2429	54	2456
1	2403	28	2430	55	2457
2	2404	29	2431	56	2458
3	2405	30	2432	57	2459
4	2406	31	2433	58	2460
5	2407	32	2434	59	2461
6	2408	33	2435	60	2462
7	2409	34	2436	61	2463
8	2410	35	2437	62	2464
9	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	<i>Cmax</i> : 78	2480
25	2427	52	2454		
26	2428	53	2455		



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1.3. Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 or/and ANSI C63.10, FCC Part 15 SubPart 15C.

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: **October 10 to 22, 2019**

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 or/and ANSI C63.10.

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, as compliant with test site criteria and competence in 47 CFR Part 15/ANSI C63.4 and EN55032/CISPR32 norms for 89/336/EEC European EMC Directive application. All pertinent data for this test facility remains unchanged.