



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

GENERAL INFORMATION

FCCID: XKB-MBISMPCBT

1.1. Product description



Feature	Description
Dimensions	400 x 130 x 64 mm
Weight	720g
Multi-charge	Up to 6 devices
Input	100-240VAC / 50-60 Hz - Class II equipment
Output	Output : 5V, 2A Max per device
Charge indication	1 Charge LED per device
Communication	Ethernet port (as an option)
Environment	Operating temperature +5°C to +40°C (85% humidity at 40°C) Storage temperature -20°C to +55°C (85% humidity at 55°C)
Certifications	CE, FCC, UL, CCC, c-tick

Data sheet of equipment

1.2. Tested System Details

Power supply:

During all the tests, EUT is supplied by $V_{nom}:12Vdc$

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

Name	Type	Rating	Reference	Sn
Supply1	<input type="checkbox"/> AC <input checked="" type="checkbox"/> DC <input type="checkbox"/> Battery	100-240 _50-60Hz / 12Vdc	VEC50US12	11-15100367-00055

Inputs/outputs - Cable:

Access	Type	Length used (m)	Declared <3m	Shielded	Under test	Comments
Supply1	DC port (12Vdc)	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	/
Access1	Ethernet port	2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	/
Access2	USB host	/	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	/
Access3	USB slave	/	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	/

Auxiliary equipment used during test:

Type	Reference	Sn	Comments
Payment terminal	IMP352-01T2287A	12243PP60050803	/
Payment terminal	IMP322-01T2128B	13213PP20041798	/
Payment terminal	IMP352-01T2287A	13259PP20063235	/
Payment terminal	IMP322-01T2128B	15249PP20627174	/
Payment terminal	IMP352-01T2287A	13257PP20060622	/
Payment terminal	IMP322-01T2128B	15249PP20626726	/



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Equipment information:

Bluetooth Classic Type:	<input type="checkbox"/> v1.2	<input type="checkbox"/> v2.0	<input type="checkbox"/> v2.1+EDR	<input type="checkbox"/> v3.0+HS
	<input type="checkbox"/> v4.0	<input checked="" type="checkbox"/> v4.1		<input type="checkbox"/> v4.2
Frequency band:	[2400 – 2483.5] MHz			
Sub-band REC7003:	Annex 3 (a)			
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 type="checkbox"/> No	<input checked="" type="checkbox"/> Temporary for test	
Transmit chains:	<input checked="" type="checkbox"/> 1			
	Single antenna			
	Gain 1: 0dBi			
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	
Dwell time:	400ms			
Adaptivity mode:	<input checked="" type="checkbox"/> Yes (Load Based DAA)	<input type="checkbox"/> Off mode	<input type="checkbox"/> No	
	Clear Channel Assessment Time:			/
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	
Operating temperature range:	Tmin:	<input checked="" type="checkbox"/> -20°C	<input type="checkbox"/> 0°C	<input type="checkbox"/> X°C
	Tnom:	20°C		
	Tmax:	<input type="checkbox"/> 35°C	<input checked="" type="checkbox"/> 55°C	<input type="checkbox"/> X°C
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	
Geo-location capability:	<input type="checkbox"/> Yes (The geographical location determined by the equipment is not accessible to the end user as defined in section 4.3.1.13.2 of ETSI EN 300 328 V1.9.1 standard)		<input checked="" type="checkbox"/> No	



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CHANNEL PLAN					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Cmin: 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	Cmid: 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	Cmax: 78	2480
25	2427	52	2454		
26	2428	53	2455		

DATA RATE				
Available for EUT	Modulation type	Max. Data Rate (Mbps)	Packet type	Worst Case Modulation
<input checked="" type="checkbox"/>	GFSK	1	1-DM1	<input type="checkbox"/>
<input checked="" type="checkbox"/>	GFSK	1	1-DH1	<input type="checkbox"/>
<input checked="" type="checkbox"/>	GFSK	1	1-DM3	<input type="checkbox"/>
<input checked="" type="checkbox"/>	GFSK	1	1-DH3	<input type="checkbox"/>
<input checked="" type="checkbox"/>	GFSK	1	1-DM5	<input type="checkbox"/>
<input checked="" type="checkbox"/>	GFSK	1	1-DH5	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	GFSK	1	AUX1	<input type="checkbox"/>
<input checked="" type="checkbox"/>	$\pi/4$ DQPSK	2	2-DH1	<input type="checkbox"/>
<input checked="" type="checkbox"/>	$\pi/4$ DQPSK	2	2-DH3	<input type="checkbox"/>
<input checked="" type="checkbox"/>	$\pi/4$ DQPSK	2	2-DH5	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	8DPSK	3	3-DH1	<input type="checkbox"/>
<input checked="" type="checkbox"/>	8DPSK	3	3-DH3	<input type="checkbox"/>
<input checked="" type="checkbox"/>	8DPSK	3	3-DH5	<input checked="" type="checkbox"/>



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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 11, 2016 to February 4, 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.