

MPE Information Requirements

Revision: 1.3

Revision	Description
1.3	Changed distance to >20cm
	Revised radio parameters (bandwidth, channels, output power)
	Split 2.4 and 5Ghz data input in two sheets
	Add Ref. Operational_Description_Table_V1_1

References

ID	Title	Revision
[1]	M.2 card for JODY-W3 Wi-Fi 6 and Bluetooth 5.3	R05
[2]	FXP523.A.07.A.001 datasheet	Rev. E
[3]	(1) 1628-201-100-02_Antenna_cable J91 (2) 1628-202-100-02_Antenna_cable J92 (3) 1628-203-100-02_Antenna_cable J93	(1) 02 (2) 02 (3) 02
[4]	Coaxial Cable Loss Calculator - 3G-aerial	
[5]	Operational_Description_Table_V1_1	1.1

No.	Band	Technology	Power Class (if applicable)	Frequency Band	Carrier Frequency		Maximum Rated Conducted Output Power (dBm)	Production Tune Up Tolerance (+/- dBm)	Minimum Path Loss to Antenna (dB)	Maximum Antenna Gain (dBi)
					Channel	Frequency Tx				
1	2400 ISM	Bluetooth 5.3	-	2401-2483.4 MHz	Low	-	10 ^[1] , Table 1	+/-2 ^[1] , Sec. 4.3	0.96 ^[3,4]	6.6 ^[2]
				Mid	-					
				High	-					
1	2400 ISM	IEEE802.11 b/g/n OFDM	-	2401-2423 MHz	Low	2401	14 ^[1] , Table15	+/-2 ^[1] , Sec. 4.3	1.1 ^[3,4]	6.6 ^[2]
				Mid	2412					
				High	2423					
2	2400 ISM	IEEE802.11 b/g/n OFDM	-	2406-2428 MHz	Low	2406	15 ^[1] , Table15	+/-2 ^[1] , Sec. 4.3	1.1 ^[3,4]	6.6 ^[2]
				Mid	2417					
				High	2428					
3	2400 ISM	IEEE802.11 b/g/n OFDM	-	2411-2433 MHz	Low	2411	16 ^[1] , Table15	+/-2 ^[1] , Sec. 4.3	1.1 ^[3,4]	6.6 ^[2]
				Mid	2422					
				High	2433					
4	2400 ISM	IEEE802.11 b/g/n OFDM	-	2416-2438 MHz	Low	2416	17 ^[1] , Table15	+/-2 ^[1] , Sec. 4.3	1.1 ^[3,4]	6.6 ^[2]
				Mid	2427					
				High	2438					
5	2400 ISM	IEEE802.11 b/g/n OFDM	-	2421-2443 MHz	Low	2421	17 ^[1] , Table15	+/-2 ^[1] , Sec. 4.3	1.1 ^[3,4]	6.6 ^[2]
				Mid	2432					
				High	2443					
6	2400 ISM	IEEE802.11 b/g/n OFDM	-	2426-2448 MHz	Low	2426	17 ^[1] , Table15	+/-2 ^[1] , Sec. 4.3	1.1 ^[3,4]	6.6 ^[2]
				Mid	2437					
				High	2448					
7	2400 ISM	IEEE802.11 b/g/n OFDM	-	2431-2453 MHz	Low	2431	17 ^[1] , Table15	+/-2 ^[1] , Sec. 4.3	1.1 ^[3,4]	6.6 ^[2]
				Mid	2442					
				High	2453					
8	2400 ISM	IEEE802.11 b/g/n OFDM	-	2436-2458 MHz	Low	2436	17 ^[1] , Table15	+/-2 ^[1] , Sec. 4.3	1.1 ^[3,4]	6.6 ^[2]
				Mid	2447					
				High	2458					
9	2400 ISM	IEEE802.11 b/g/n OFDM	-	2441-2463 MHz	Low	2441	17 ^[1] , Table15	+/-2 ^[1] , Sec. 4.3	1.1 ^[3,4]	6.6 ^[2]
				Mid	2452					
				High	2463					
10	2400 ISM	IEEE802.11 b/g/n OFDM	-	2446-2468 MHz	Low	2446	15 ^[1] , Table15	+/-2 ^[1] , Sec. 4.3	1.1 ^[3,4]	6.6 ^[2]
				Mid	2457					
				High	2468					
11	2400 ISM	IEEE802.11 b/g/n OFDM	-	2451-2473 MHz	Low	2451	13 ^[1] , Table15	+/-2 ^[1] , Sec. 4.3	1.1 ^[3,4]	6.6 ^[2]
				Mid	2462					
				High	2473					

Customer declared minimum separation distance (cm):
(from radiating element to end user)

>20 ^[5]	Note: Distance from Passenger in Normal Operation
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No.	Band	Technology	Power Class (if applicable)	Frequency Band	Carrier Frequency		Maximum Rated Conducted Output Power (dBm)	Production Tune Up Tolerance (+/- dBm)	Minimum Path Loss to Antenna (dB)	Maximum Antenna Gain (dBi)
					Channel	Frequency Tx				
36	5000 ISM	IEEE802.11 a/n/ac	-	5170–5190 MHz	Low	5170	14 ^[1] , Table 18	+/-2 ^[1] , Sec. 4.3	0.96 ^[3,4]	6.6 ^[2]
					Mid	5180				
					High	5190				
40	5000 ISM	IEEE802.11 a/n/ac	-	5190–5210 MHz	Low	5190	15 ^[1] , Table 18	+/-2 ^[1] , Sec. 4.3	0.96 ^[3,4]	6.6 ^[2]
					Mid	5200				
					High	5210				
44	5000 ISM	IEEE802.11 a/n/ac	-	5210–5230 MHz	Low	5210	15 ^[1] , Table 18	+/-2 ^[1] , Sec. 4.3	0.96 ^[3,4]	6.6 ^[2]
					Mid	5220				
					High	5230				
48	5000 ISM	IEEE802.11 a/n/ac	-	5230–5250 MHz	Low	5230	15 ^[1] , Table 18	+/-2 ^[1] , Sec. 4.3	0.96 ^[3,4]	6.6 ^[2]
					Mid	5240				
					High	5250				

Customer declared minimum separation distance (cm):
(from radiating element to end user)

>20 ^[5]	Note: Distance from Passenger in Normal Operation
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