

Applicant: Johnson Industries (Shanghai) Co., Ltd.

Product Name: Console

Model Number: XIR

FCCID: 2AOTTXIR

Contains FCC ID: 2AKDB-WLT2564M

RADIO FREQUENCY EXPOSURE COMPLIANCE RESULT:

Test Standard: FCC CFR 47 § 1.1310 : Radiofrequency radiation exposure limits.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f ²	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz * = Plane-wave equivalent power density

Note:

(1) Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when a person is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

(2) General population/uncontrolled exposure limits apply in situations in which the general public may be exposed, or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

MPE Calculation Standard:

$$MPE(S) = PG/(4\pi R^2)$$

where: S = power density (in appropriate units, e.g. mW/ cm²)

P = power input to the antenna (in appropriate units, e.g., mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

Calculation Result:

For this EUT, General population/uncontrolled exposure limits applied.

The limit value 1.0mW/cm² is available for this EUT.

The EUT with BLE of WLT2564M and BT/IEEE802.11 of AP6210 can transmit at the same time, the simultaneous MPE is considered in the Calculation Result.

AP6210:

IEEE 802.11:

Modulation	PeakOutput Power		Antenna Gain		MPE (mW/cm ²)	Limit (mW/cm ²)
	(dBm)	(mW)	(dBi)	(Numeric)		
802.11b	17.47	55.85	2	1.58	0.017555	1.0
802.11g	22.34	171.4	2	1.58	0.053876	1.0
802.11n20	20.58	114.29	2	1.58	0.035925	1.0

BT:

Modulation	PeakOutput Power		Antenna Gain		MPE (mW/cm ²)	Limit (mW/cm ²)
	(dBm)	(mW)	(dBi)	(Numeric)		
DH1	-4.315	0.37	2	1.58	0.000116	1.0
DH3	-3.908	0.41	2	1.58	0.000129	1.0
DH5	-4.314	0.37	2	1.58	0.000116	1.0
3DH1	-4.509	0.35	2	1.58	0.000110	1.0
3DH3	-4.154	0.38	2	1.58	0.000119	1.0
3DH5	-4.509	0.35	2	1.58	0.000110	1.0

Mixed MPE of AP6210

AP6210		Mixed	Limit
IEEE 802.11	BT	(mW/cm ²)	(mW/cm ²)
0.053876	0.000129	0.054005	1.0

WLT2564M: (According FCC ID: 2AKDB-WLT2564M) (BLE mode only in XIR)

BLE:

MPE	Limit
(mW/cm ²)	(mW/cm ²)
0.0022	1.0

Mixed MPE of XIR (AP6210 + WLT2564M):

MPE		Mixed	Limit
AP6210	WLT2564M	(mW/cm ²)	(mW/cm ²)
0.054005	0.0022	0.056205	1.0

For R = 20cm