

1.0 APPLICANT:

DATE: 12/16/2011

NAME OF APPLICANT: HONEYWELL INTERNATIONAL INC.

FCC ID: CFS8DLLYNXTOUCH2

IC: 573F-LYNXTOUCH2

2.0 FCC RULES CONCERNING MAXIMUM PERMISSIBLE RF EXPOSURE:

§ CFR 47 1.1310 Radiofrequency radiation exposure limits.

The criteria listed in table 1 shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in § 1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of § 2.1093 of this chapter. Further information on evaluating compliance with these limits can be found in the FCC's OST/OET Bulletin Number 65, "Evaluating Compliance with FCC-Specified Guidelines for Human Exposure to Radiofrequency Radiation."

NOTE TO INTRODUCTORY PARAGRAPH: These limits are generally based on recommended exposure guidelines published by the National Council on Radiation Protection and Measurements (NCRP) in "Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," NCRP Report No. 86, Sections 17.4.1, 17.4.1.1, 17.4.2 and 17.4.3, Copyright NCRP, 1986, Bethesda, Maryland 20814. In the frequency range from 100 MHz to 1500 MHz, exposure limits for field strength and power density are also generally based on guidelines recommended by the American National Standards Institute (ANSI) in Section 4.1 of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields," ANSI C95.1-1991.

3.0 MPE CALCULATIONS:

FCC GENERAL POPULATION / UNCONTROLLED EXPOSURE LIMITS: for 300 MHz to 1,500 MHz = $F / 1500 \text{ mW/cm}^2$; for 1,500 to 100,000 MHz use 1 mW/cm^2

EQUATIONS:

$P=20 \times \log E -95.2289$

THE FRIIS TRANSMISSION EQUATION = $EIRP \times DUTY \text{ CYCLE} / (4 \times \pi \times 20 \text{ CM}^2)$

NOTE: THE CELLULAR DUTY CYCLE USED WAS 25% FOR GSM AND GPRS / EGPRS AND 100% FOR CDMA THIS IS THE WORST CASE FROM THE PTCRB REPORT.

THE WIFI LEVEL CAME FROM CFS8DLWIFI / 573F-WIFI EXHIBIT 5-3A

BAND:	CHANNEL:	FREQ:	uV/M @ 3M:	MAXIMUM EIRP (dbm):	MAXIMUM EIRP (mW):	DUTY CYCLE:	FRIIS mW/CM ² :	EXP LIMIT mW/CM ² :	% OF LIMIT:	
N/A	N/A	344.94	45,133.60	-2.14	0.611	15%	0.0000182	0.229960	0.0079	
Z-WAVE	N/A	908.42	30,443.90	-5.56	0.278	100%	0.0000553	0.605613	0.0091	
WIFI	1	2412.00	N/A	17.74	59.429	100%	0.0118231	1.000000	1.1823	
BAND:	CHANNEL No:	FREQ(MHz):	TRP dbm:	MAXIMUM EIRP (dbm):	MAXIMUM EIRP (mW):	DUTY CYCLE:	FRIIS mW/CM ² :	EXP LIMIT mW/CM ² :	% OF LIMIT:	CO-MPE % :
GSM	251	848.80	27.17	27.17	521.19	25%	0.025922	0.565870	4.5809	5.7712
GSM	512	1850.20	27.62	27.62	578.10	25%	0.028752	1.000000	2.8752	4.0655
GPRS	251	848.80	26.94	26.94	494.31	25%	0.024585	0.565870	4.3446	5.5349
GPRS	512	1850.20	27.70	27.70	588.84	25%	0.029287	1.000000	2.9287	4.1189
EGPRS	251	848.80	20.93	20.93	123.88	25%	0.006161	0.565870	1.0888	2.2791
EGPRS	512	1850.20	23.93	23.93	247.17	25%	0.012293	1.000000	1.2293	2.4196
WCDMA	9400	1880.00	20.95	20.95	124.45	100%	0.024759	1.000000	2.4759	3.6661
WCDMA	4183	836.60	17.26	17.26	53.21	100%	0.010586	0.557730	1.8980	3.0883

MAXIMUM MPE OF JUST THE 344.94 MHz RADIO AS % OF LIMIT IS:	0.0079
MAXIMUM CO-MPE OF THE 344.94 MHz RADIO & WIFI MODULE AS % OF LIMIT IS:	1.1902
MAXIMUM CO-MPE OF THE 344.94 MHz RADIO, & 3G MODULE AS % OF LIMIT IS:	4.5889
MAXIMUM CO-MPE OF THE 344.94 MHz RADIO, WIFI & 3G MODULES AS % OF LIMIT IS:	5.7712
MAXIMUM CO-MPE OF THE 344.94 MHz RADIO, Z-WAVE, WIFI & 3G MODULES AS % OF LIMIT IS:	5.7803

4.0 RESULTS:

TEST RESULT: PASS

In the configuration tested the EUT complied with the standards specified above.