

1.0 APPLICANT:

DATE: 03,08,2013

NAME OF APPLICANT: HONEYWELL INTERNATIONAL INC.

FCC ID: CFS8DLLYNXPLUS2

2.0 FCC RULES CONCERNING MAXIMUM PERMISSIBLE RF EXPOSURE:

4 G MODULE

§ 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, 3 kHz to 300 GHz," ANSI/IEEE C95.1-1992, Copyright 1992 by the Institute of Electrical and Electronics Engineers.

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:

$P=20 \text{ X LOG E} -95.2289$

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

NOTE: THE CELLULAR DUTY CYCLE USED VARIED FROM 12.5% to 100% THIS IS THE WORST CASE DATA FROM THE PTCRB REPORT.

BAND:	CHANNEL:	FREQ:	uV/M @ 3M:	MAXIMUM EIRP (dbm):	MAXIMUM EIRP (mW):	DUTY CYCLE:	FRISS mW/CM ² :	EXP LIMIT mW/CM ² :	% OF LIMIT:	
N/A	N/A	344.94	42,756.30	-2.61	0.548	15.0%	0.0000164	0.229960	0.0071	
			Maximum RMS Conducted Power From QIPPH8	Antenna Gain dbi:	MAXIMUM EIRP (mW):	DUTY CYCLE:	FRISS mW/CM ² :	EXP LIMIT mW/CM ² :	% OF LIMIT:	CO-MPE % :
GSM 850	190	836.6	33.1	1.4	2818.38	12.5%	0.070087	0.557733	12.5665	12.5736
GSM 1900	512	1850.2	30.07	1.1	1309.18	12.5%	0.032557	1.000000	3.2557	3.2628
GPRS 850	190	836.6	33.1	1.4	2818.38	50.0%	0.280350	0.557733	50.2660	50.2731
GPRS 1900	512	1850.2	30.07	1.1	1309.18	50.0%	0.130227	1.000000	13.0227	13.0298
EGPRS 850	251	848.8	26.72	1.4	648.63	50.0%	0.064521	0.565867	11.4021	11.4093
EPGRS 1900	512	1850.2	25.98	1.1	510.50	50.0%	0.050781	1.000000	5.0781	5.0852
UMTS 850	4233	846.6	23.69	1.4	322.85	100.0%	0.064229	0.564400	11.3800	11.3871
UMTS 1900	9538	1907.6	24.52	1.1	364.75	100.0%	0.072566	1.000000	7.2566	7.2637
UMTS 1700	1450	1740	23.86	1.8	368.13	100.0%	0.073237	1.000000	7.3237	7.3308

MAXIMUM CO-LOCATION MPE % OF LIMIT IS : THE 344.94 MHz SRR (0.007116717) + (GPRS 850 50.2731) =S 50.2802%

4.0 RESULTS:

TEST RESULT: PASS

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

X _____ Kenneth Eskildsen, Engineering Manager DATE: March, 8th, 2012