ETS Product Service GmbH

Maximal Permissible Exposure

FCC ID: SGH1409G

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy in excess limit for maximum permissible exposure.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 and RSS-102 this device has been defined as a mobile device whereby a distance of 0.2, normally can be maintained between the user and the device.

The following calculation presents the exposure value against the limits for occupational / controlled use.

name			nature	/alue	log v	alue	nature	value
					J		_	
max conducted power			1,35	mW	1,30	dBm	1,35	mW
max Antenna gain dBi			1,62		2,10	dBi	1,62	
max Antenna gain dBd			0,99			dBd	0,99	
calculated radiated power		EIRP	2,19	mW	3,40	dBm	2,19	mW
		ERP	1,33	mW	1,30	dBm	1,35	mW
measured radiated power		EIRP	1,00	mW		dBm	1,00	mW
		ERP	1,00	mW	,	dBm	1,00	mW
duty cycle factor								
frequency	2400							
dwell time			100	ms				
Time of occupancy/puls-train time			100	ms				
duty cycle factor	10log(dwell time/100 ms)		100,00%		0,00	dB	1,00	
max source-based time-averaged power								
conducted power			1,35	mW	1,30	dB	1,35	mW
calculated radiated power		EIRP	2,19	mW	3,40	dB	2,19	mW
measured radiated power		EIRP	1,00	mW	0,00	dB	1,00	mW
MPE								
$S = \frac{PG}{4\pi R^2}$		calculated with max source-based time-averaged power measured condacted power						
4 πR *		r [cm]	20	2,5	1,5	0,417		
		S [mW/cm ²]	•	0,028	0,077	1		
Limit general population		[mW/cm ²]	1,000					
Limit occupational population		[mW/cm ²]	5,00	for f =	2400	MHz		
$S = \frac{EIRP}{4\pi R^2} = \frac{1.64 \ ERP}{4\pi R^2} = \frac{0}{4\pi R^2}$.41 ERP	calculated with max source-based time-averaged power measured radiated power						
$4\pi R^2$ $4\pi R^2$	πR^2	r [cm]	20	2,5	1,5			
		S [mW/cm ²]				1		



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Applicant's declaration concerning RF radiation exposure

We hereby indicate that the Bluetooth serial port adapter is considered to be a mobile transceiver.

The external antennas used for this mobile transceiver must provide a separation distance of least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

A safety statement concerning minimum separation distances from enclosure of Bluetooth serial port adaptor will be integrated in user's manual to provide and-users with transmitter operting conditions for satisfying RF exposure compliance.

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