## Maximal Permissible Exposure

FCC ID:

IC

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.

Operating mode:

WLAN: 2,4 GHz

name			nature va	lue	log va	llue					
max conducted power			182,389570	mW	22,61 dBm						
max Antenna gain dBi			1,00		0,00 dBi						
max Antenna gain dBd			0,61		0,00 dBd						
calculated radiated power		EIRP	182,3896	mW	22,61 dBm						
		ERP	111,2132	mW	22,61	61 dBm					
measured radiated power		EIRP		mW	0,00 dBm						
		ERP		mW	dBm						
duty cycle factor											
frequency		MHz									
dwell time			100,00	ms							
Time of occupancy/puls-t	rain time		100,00	ms							
duty cycle factor 10log(dwell time/100 ms)		)	100,00%	100,00%		dB					
max source-based time-averaged power											
conducted power			182,39	182,39 mW		22,61 dB					
calculated radiated power		EIRP	182,39		22,61 dB						
measured radiated power		EIRP	<b>1,00</b> mW 0,00 d		dB						
		MPE									
$S = \frac{F}{4\pi}$	PG	calculated		urce-based time-averaged power ed condacted power							
4 π	R <sup>2</sup>	r [cm]	20	2,5	1,5	3,81					
		S [mW/cm <sup>2</sup> ]	0,0363	2,323	6,454	1,0					
Limit general population		[mW/cm <sup>2</sup> ]	1,0								
Limit occupational population		[mW/cm <sup>2</sup> ]	5,0	for f =	2400	MHz					
$S = \frac{EIRP}{} = \frac{1.6}{}$	54 ERP _ 0.41 ERP	calculated with max source-based time-averaged measured radiated power				er					
	4πR <sup>2</sup> πR <sup>2</sup>	r [cm]	20	2,5	1,5	n.a.					
		S [mW/cm <sup>2</sup> ]	n.a. =\$			1,0					

Test result: complies

## ETS Product Service GmbH

WLAN: 5 GHz

name			nature va	lue	log va	alue				
max conducted power			24,490632	mW	13,89 dBm					
max Antenna gain dBi			1,00		0,00 dBi					
max Antenna gain dBd			0,61		0,00 dBd					
calculated radiated power		EIRP	24,4906		13,89 dBm					
		ERP	14,9333	mW	13,89 dBm					
measured radiated power		EIRP		mW	0,00 dBm					
		ERP		mW	dBm					
duty cycle factor										
frequency	5000	MHz								
dwell time			100,00							
Time of occupancy/puls-tr	ain time		100,00 ms							
duty cycle factor 10log(dwell time/100 ms)			100,00%		0,00 dB					
max source-based time-averaged power										
conducted power		- Inc	24,49 mW		13,89 dB					
calculated radiated power		EIRP	24,49 mW		13,89 dB					
measured radiated power		EIRP	<b>1,00</b> mW 0,00 dB		aB					
		MPE								
$S = \frac{P}{4\pi}$	G	calculated with max source-based time-averaged power measured condacted power								
4π	R <sup>2</sup>	r [cm]	20	2,5		1,40				
		S [mW/cm <sup>2</sup> ]	0,0049	0,312	0,867	1,0				
Limit general population		[mW/cm <sup>2</sup> ]	1,0							
Limit occupational population		[mW/cm <sup>2</sup> ]	5,0	for f =		MHz				
$S = \frac{EIRP}{} = \frac{1.6}{}$	4 ERP = 0.41 ERP	calculated with max source-based time-averaged power measured radiated power								
	$\pi R^2$ $\pi R^2$	r [cm] S [mW/cm²]	20 <b>n.a.</b> =\$	2,5	1,5	<b>n.a.</b> 1,0				

Test result: complies