

Produkte
Products

RF Exposure Statement: 12028061 002	Page 1 of 1																				
Client:	Sumitomo Electric Networks Inc. 1-1-3 Shimaya, Konohana-ku, Osaka 554-0024, Japan																				
Test item:	Service Gateway																				
Identification:	MR5105																				
<p>FCC Requirement</p> <p>According to FCC 2.1091, mobile equipment must comply with the following applicable limit for maximum permissible exposure (MPE) specified in FCC 1.1310:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Equipment Use</th> <th style="width: 25%;">Frequency Range</th> <th style="width: 25%;">Power Density [mW/cm²]</th> <th style="width: 25%;">Average Time [min]</th> </tr> </thead> <tbody> <tr> <td>General Population / Uncontrolled Exposure</td> <td>1.5 – 100GHz</td> <td>1</td> <td>30</td> </tr> </tbody> </table>		Equipment Use	Frequency Range	Power Density [mW/cm ²]	Average Time [min]	General Population / Uncontrolled Exposure	1.5 – 100GHz	1	30												
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<p>Measurement Result</p> <p>The maximum measured transmitter power is given in the following table:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Radio Protocol</th> <th style="width: 25%;">Conducted Output Power P_{out} [mW]</th> <th style="width: 25%;">Maximum Antenna Gain [dBi]</th> <th style="width: 25%;">Power Density at 20cm [mW/cm²]</th> </tr> </thead> <tbody> <tr> <td>IEEE 802.11b</td> <td>234.4</td> <td>5.88</td> <td>0.181</td> </tr> <tr> <td>IEEE 802.11g</td> <td>398.1</td> <td>5.88</td> <td>0.307</td> </tr> <tr> <td>IEEE 802.11n 20MHz</td> <td>426.6</td> <td>5.88</td> <td>0.329</td> </tr> <tr> <td>IEEE 802.11n 40MHz</td> <td>177.8</td> <td>5.88</td> <td>0.137</td> </tr> </tbody> </table>		Radio Protocol	Conducted Output Power P _{out} [mW]	Maximum Antenna Gain [dBi]	Power Density at 20cm [mW/cm ²]	IEEE 802.11b	234.4	5.88	0.181	IEEE 802.11g	398.1	5.88	0.307	IEEE 802.11n 20MHz	426.6	5.88	0.329	IEEE 802.11n 40MHz	177.8	5.88	0.137
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<p>Note:</p> <p>The power density S in mW/cm² is calculated according to the Friis formula: $S = (P_{out} \cdot G) / (4\pi \cdot D^2)$, where P_{out} = antenna conducted output power in mW, G = antenna gain in linear scale (here: 5.88dBi = 3.87 linear), D = distance between observation point and radiating structure in cm (here: 20cm).</p>																					
<p>Conclusion</p> <p>The device complies with the FCC RF exposure requirements since the maximum transmitter power density is below the FCC limit.</p> <p>Refer to test report 12028061 001 for more details.</p>																					
<p>TÜV Rheinland Japan Ltd. – Global Technology Assessment Center 4-25-2 Kita-Yamata, Tsuzuki-ku, Yokohama 224-0021, Japan</p>																					