

Produkte  
Products

<b>RF Exposure Statement: 12701745 002</b>		Page 1 of 1															
<b>Client:</b>	Fujitsu Kyushu Network Technologies Limited Fujitsu Kyushu R&D Center Bldg., 2-2-1 Momochihama, Sawara-ku, Fukuoka-shi, Fukuoka 814-8588, Japan																
<b>Test item:</b>	Relay Equipment and Concentrator																
<b>Identification:</b>	YA14A75-B310, YA14A75-B311 YA14A75-B312, YA14A75-B313																
<b>FCC Requirement</b> According to FCC 2.1091, mobile equipment must comply with the following applicable limit for maximum permissible exposure (MPE) specified in FCC 1.1310: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"><tr><th style="width: 25%;">Equipment Use</th><th style="width: 25%;">Frequency Range</th><th style="width: 25%;">Power Density [mW/cm<sup>2</sup>]</th><th style="width: 25%;">Average Time [min]</th></tr><tr><td>General Population / Uncontrolled Exposure</td><td>1.5 – 100GHz</td><td>1</td><td>30</td></tr></table>			Equipment Use	Frequency Range	Power Density [mW/cm <sup>2</sup> ]	Average Time [min]	General Population / Uncontrolled Exposure	1.5 – 100GHz	1	30							
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<b>IC Requirement</b> According to RSS-102 (Issue 4), clause 2.5.2, no routine RF exposure evaluation is required if the transmitter has a minimum separation distance to the user greater than 20cm and has an output power (e.i.r.p.) below the following threshold: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"><tr><th style="width: 30%;">Frequency Range</th><th style="width: 70%;">RF Exp. Evaluation Threshold [W]</th></tr><tr><td>Above 1.5GHz</td><td>5</td></tr></table>			Frequency Range	RF Exp. Evaluation Threshold [W]	Above 1.5GHz	5											
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<b>Measurement Result</b> The maximum measured transmitter power is given in the following table: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"><tr><th style="width: 15%;">Radio</th><th style="width: 20%;">Conducted Output Power P<sub>out</sub> [mW]</th><th style="width: 20%;">Maximum Antenna Gain [dBi]</th><th style="width: 20%;">EIRP Output Power [mW]</th><th style="width: 25%;">Power Density at 20cm [mW/cm<sup>2</sup>]</th></tr><tr><td>IEEE 802.11b</td><td>52.48</td><td>12.77</td><td>993.12</td><td>0.198</td></tr><tr><td>IEEE 802.11n</td><td>205.59</td><td>12.77</td><td>3890.45</td><td>0.774</td></tr></table>			Radio	Conducted Output Power P <sub>out</sub> [mW]	Maximum Antenna Gain [dBi]	EIRP Output Power [mW]	Power Density at 20cm [mW/cm <sup>2</sup> ]	IEEE 802.11b	52.48	12.77	993.12	0.198	IEEE 802.11n	205.59	12.77	3890.45	0.774
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<b>Note:</b> The power density S in mW/cm <sup>2</sup> is calculated according to the Friis formula: $S = (P_{out} \cdot G) / (4\pi \cdot D^2)$ , where P <sub>out</sub> = antenna conducted output power in mW, G = antenna gain in linear scale (here: 12.77dBi = 18.92 linear), D = distance between observation point and radiating structure in cm (here: 20cm).																	
<b>Conclusion</b> The device complies with the FCC and IC RF exposure requirements since the maximum transmitter power density is below the FCC limit and the e.i.r.p. output power is below the IC RF exposure evaluation exemption threshold.  Refer to test report 12701745 001 for more details.																	
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