

RF Exposure / SAR Statement

No. : 32CE0252-SH-02-A

Applicant : Yokogawa Electric Corporation
Type of Equipment : WLAN Redundant Module
Model No. : F9195KJ
FCC ID : SGJ-WFC009

Yokogawa Electric Corporation declares that Model : WLAN Redundant Module complies with FCC radiation exposure requirement specified in the FCC Rules 2.1091. The "F9195KJ" has 66.83 mW of conducted Peak Output power and 2113.49 mW of EIRP. This equipment is considered as a mobile device so that SAR testing is excluded. The Following calculation is the reference data for 20cm distance.

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the "F9195KJ" as calculated from FCC OET Bulletin 65 Appendix A, Table (B) Limits for General Population / Uncontrolled Exposure. This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain, and considering a 1.0mW/cm² uncontrolled exposure limit. The Friis formula used was:

$$S = (P * G) / (4 * \pi * r^2)$$

Where

P = 66.83 mW (Maximum peak output power)
G = 31.62 Numerical Antenna gain; equal 15.00 dBi
r = 20.0 cm

For: F9195KJ

$$S = 0.42047 \text{ mW/cm}^2$$

Antenna type	2.14 dBi (Single)	2.14 dBi (Dual)	6 dBi	9 dBi	15 dBi
Attenuator setting:					
IEEE 802.11b	0 dB	0 dB	0 dB	0 dB	0 dB
IEEE 802.11g	0 dB	2 dB	4 dB	5 dB	0 dB
IEEE 802.11a	-	0 dB	-	-	-

* The calculation has been performed based on the worst case where the antenna gain is 15dBi.

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