

RF Exposure / SAR Statement

No. : 32CE0252-SH-02-G

| | | | | | |
|--|--------------------------|---|--------------------------------------|--|--|
| | Applicant | : | Yokogawa Electric Corporation | | |
| | Type of Equipment | : | WLAN Redundant Module | | |
| | Model No. | : | F9195KJ | | |
| | FCC ID | : | SGJ-WFC008 | | |

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 (M aximum peak output power) | | |
| G = | 31.62 | Numerical Antenna gain; equal to | 15.00 | dBi |
| r = | 20.0 | cm | | |

For: F9195KJ

S = 0.42047 mW/cm²

| 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.

UL Japan, Inc.

Shonan EMC Lab.

1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa-ken, 259-1220 JAPAN

Telephone: +81 463 50 6400

Facsimile: +81 463 50 6401