



## RF Exposure Analysis – SAR Test Exemption – CTSN-09S

### FCC ID: 2ANX7CTSN

The CTSN-09S equipment operates using a transceiver that operates in the 2400 MHz to 2483.5 MHz ISM band.

### The following FCC Rule Parts and Procedures are applicable:

KDB447498 D04 V01 – Interim General RF Exposure Guidance

Part 1.1307(b)(3)(i)(A) - Blanket RF exposure exemption (i)

Part 1.1307(b)(3)(i)(C) - SAR test exemption (ii)

Part 1.1307(b)(3)(i)(B) - SAR test exemption (iii)

### For the CTSN-09S

Operating Frequencies: 2407.124992 MHz to 2476.834816 MHz

Declared Maximum Conducted Transmitter Output Power: -8 dBm (**0.16 mW**)  
(including Tune Up tolerance)

Antenna System Gain: -6.0 dBi

Transmitter EIRP = -14.0 dBm (0.04 mW)

*As the conducted transmitter output power is higher than the calculated EIRP this figure is compared to the specified exemption limits of Part 1.1307*

### Evaluation

From Part 1.1307, RF exposure exemption applies if the maximum transmitted power is less than the maximum of the following three criteria:

- i. Less than 1 mW Blanket exemption.  $P_{TH} = 0.001 \text{ W}$  – §1.1307(b)(3)(i)(A)
- ii. determination of exemption under the MPE-based §1.1307(b)(3)(i)(C), if i) not met
- iii. determination of exemption under the SAR-based §1.1307(b)(3)(i)(B) if both i) and ii) are not met;

### Conclusion

The CTSN-09S maximum conducted transmitter output power is less than 1 mW and, therefore, complies with the RF exposure blanket exemption in accordance with §1.1307(b)(3)(i)(A).