

## RF Exposure / SAR Statement

**No. : 25CE0272-HO-1**

**Applicant** : CONTEC CO.,LTD.  
**Type of Equipment** : Wireless LAN MiniPCI Card User Unit  
**Model No.** : FX-DS540-MPCI4W  
**FCC ID** : PQRDS540-MPCI4W

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### **RF Exposure Calculations:**

The following information provides the minimum separation distance for the highest gain antenna provided with the "PQRDS540-MPCI4W" 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 20.0mW/cm<sup>2</sup> uncontrolled exposure limit. The Friis formula used was:

[ 2412-2462MHz ]

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

Where

**P = 309.74 mW (Maximum peak output power)**  
**G = 1.58 Numerical Antenna gain; equal to 2.00 dBi**  
**r = 20.0 cm**

**For: FX-DS540-MPCI4W**

$$S = 0.09766 \text{ mW/cm}^2$$

[ 5825MHz ]

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

Where

**P = 72.28 mW (Maximum peak output power)**  
**G = 2.00 Numerical Antenna gain; equal to 3.00 dBi**  
**r = 20.0 cm**

**For: FX-DS540-MPCI4W**

$$S = 0.02869 \text{ mW/cm}^2$$

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