

RF Exposure / SAR Statement

No. : 26FE0180-HO

		Applicant	:	CONTEC CO., LTD.				
		Type of Equipment	:	Wireless LAN MiniPCI Card				
		Model No.	:	FX-DS540-MPCI6				
		FCC ID	:	PQRDS540-MPCI6				

CONTEC CO., LTD. declares that Model : Wireless LAN MiniPCI Card
complies with FCC radiation exposure requirement specified in the FCC Rules 2.1093(for portable)/2.1091 (for mobile).

The “FX-DS540-MPCI6“ has 25.59 mW of conducted Peak Output power and 51.05 mW of EIRP.
This kind of equipment is below 60/frequency[GHz] mW(TCB Exclusion List)
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 “FX-DS540-MPCI6“ 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 =	25.59	mW (Maximum peak output power)
G =	2.00	Numerical Antenna gain; equal to
r =	20.0	cm

For: FX-DS540-MPCI6

$$S = 0.01016 \text{ mW/cm}^2$$