Federal Communications Commission

Re.: RF exposure compliance issue

SAR Declaration

General:

The device is a **Bluetooth PCMCIA card** to be used for standard fullsize laptops and computers. Therefore the separation distance of radiating structures (antennas) between the device and the human body is more than 20 cm and the device can be categorized as a mobile device.
The maximum output power of the device measured at the antenna connector is 16,36 dBm.
The device has two antennas with the following antenna gains:

Antenna	***Antenna Gain/dBi***
patch antenna	2,17 dBi
PCB antenna	2,52 dBi

Therefore the maximum radiated power is 18,88 dBm EIRP which equals 78 mW. With this the maximum power density in 20 cm distance can be calculated as :

$S = EIRP/(4xR^2x\pi) = 0{,}0155\ mW/cm^2$

which is far below the MPE limits of 1 mW/cm^2.

There will be a statement in the user's manual that the device has to be installed and operated while maintaining a minimum body to antenna distance of 20 cm.

Therefore the device meets the MPE requirements for general opulation/uncontrolled exposure.

For Digianswer A/S

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