

RF exposure instructions

Pursuant to 47 CFR § 25.200(d) of the FCC Rules and Regulations, this equipment is subject to the radio frequency radiation exposure requirements specified in § 1.1307(b), § 2.1091 and § 2.1093, as appropriate. The Telit car kit adapter is intended to provide a means of using a handset in a cradle for the purpose of communicating with a satellite from inside an automobile. The car kit system is an rf amplifier unit, trunk mounted, with a cradle that accepts the handset unit that is normally used by the individual for communicating via the satellite with other ground based users of the telecom network. RF signals from the handset are routed by the cradle to the rf amplifier unit which uses a roof top magnetic mount antenna (this is the antenna supplied by Telit) for transmission and reception.

The device transmits in the 1610 to 1626.5 MHz band and receives in the 2483.5 to 2500 MHz band and uses the external magnetic mount antenna for roof top mounting. Telit certifies that it has determined that the rf amplifier unit with car top antenna complies with the RF hazard requirements applicable to this equipment operating under the authority of 47 CFR Part 25 of the FCC Rules and Regulations. This determination is dependent upon installation, operation and use of the equipment in accordance with all instructions provided.

The Telit system configured with the car kit external amplifier is defined by the FCC Rules as a mobile device which according to FCC definitions means that the device is designed to be used in other than fixed locations and generally in such a way that a separation distance of at least 20 cm (8 inches) is normally maintained between the transmitter's antenna and the body of the user or nearby persons. The car kit amplifier is not designed for or intended to be used in portable applications (within 20 cm of the body of the user) and such uses are strictly prohibited. To ensure that the car kit complies with current FCC regulations limiting both maximum RF output power and human exposure to radio frequency radiation, a separation distance of at least 20 cm must be maintained between the unit's antenna and the body of the user and any nearby persons at all times and in all applications and uses. Further, when installed as directed with the magnetic roof mount antenna, there will be additional shielding of the radiation by the metallic roof of the vehicle in which the car kit is installed. In addition, the antenna pattern from the roof mount antenna is directed upward towards the nominal satellite position overhead away from anyone inside the automobile.

MPE calculated energy level: Using 7.5 Watts EIRP, 20 cm separation distance, the calculated power density computed by dividing the EIRP by the surface area of a sphere of 20 cm diameter is 1.49 mW/cm^2 . From the above, there is an intervening metallic plate to reduce the electric field by virtue of the magnetic base in the antenna and further, the antenna design is such to radiate the energy upward away from the passenger compartment of an automobile.

Based on the above, Telit certifies that the FCC requirements for mobile MPE limits for RF Exposure are met by their product.