

RF exposure compliance issues:

This telemetry gateway device is normally used only at fixed locations far away from persons. It is collecting data packets from an UHF telemetry network and transmitting it through the GSM network and vice versa.

According to OET Bulletin 65 for fixed transmitters operating in the Cellular Radiotelephone Service band or in the broadband PCS band evaluation is not required when the total power of all channels used is below or equal to 1000 W ERP or 2000 W ERP respectively. Generally for mobile transmitters operating below 1,5 GHz evaluation is not required when the effective radiated power (ERP) is below or equal to 1,5 W.

In Cellular mode this device only uses one channel in the Cellular Radiotelephone Service band at 850 MHz with a maximum power output of 2 Watts, and ERP not exceeding 7 Watts or one channel in the PCS 1900 MHz Band with a maximum power output of 1 Watt, and ERP not exceeding 2 Watts. In the UHF mode it uses a maximum power output of 0,5 Watts, and omnidirectional antennas without antenna gain over dipole, so the ERP value is also equal to 0,5 Watts.

So this device is excluded from routine evaluation. It must be operated only as fixed device, never should be used as mobile or portable device.