

# STATEMENT ON EXPOSURE TO ELECTROMAGNETIC FIELDS

## **EQUIPMENT**

Type of equipment: Radio Module

Brand name: Gantner

Type / Model: BG BLEM-SL22

Manufacturer: Silicon Labs

### **STANDARD**

47 CFR §2.1091, 47 CFR §1,1307, 47 CFR §1.1310 KDB 447498 D01 v06

# **Evaluation**

☑ Maximum output power of the transmitter is 6 mW (≈ 7.8 dBm) according to the FCC Grant: QOQ-BGM220S. PCB antenna gain has maximum 3 dBi gain (if it functions a dipole).

A worst case MPE calculation is as follows:

 $7.8 \text{ dBm} + 3 \text{ dBi} = 10.8 \text{ dBm} \approx 12 \text{ mW}$ 

$$S = \frac{EIRP}{\pi * r^2}$$

EIRP = 12 mWr = 20 cm

 $S = 0.0095 \text{ mW} / \text{cm}^2$ 



# Limits

Per 47 CFR §1.1310 MPE the limit in the 2.4 GHz range is 1 mW / cm<sup>2</sup>.

RSS-102 clause 2.5.2 Routine rf exposure evaluation exemption limit for transmitters operating at 2480 MHz is 2.74 W eirp.

Teltek Deutschland Conby

\$ 7.00 Kanpa

Transmitter complies with these limits without testing.

Intertek Deutschland GmbH

Date of issue: 2021-02-19

Issued by: R. Dressler