

- Functionality for Service Technicians (internal and/or external):
 - Used to read out data and perform firmware updates
- Specification Information of Wireless Interface/Antenna Module.
 - Type of Interface: Bluetooth® Low Energy
 - RF Transmission Standard: Bluetooth® Low Energy 4.2
 - RF Transmission Frequency Range: 2400-2483.5 MHz
 - Data Transmission Range: up to 10 m (max)
 - Modulation: GFSK
 - Antenna Gain: see Table 1 below

Frequency (MHz)	Antenna Gain (dBi)
2402	2.91
2440	1.52
2480	1.87

Table 1: Antenna Gain

- Antenna Polarization: Linear, but due to it being a portable product (used in different directions) and the antenna shape (meander) cannot specify Horizontal or Vertical.
- Conducted (Peak) Power Output – Min: 0.00107 W / see Table 2 below [dBm]
Conducted (Peak) Power Output – Max: 0.00112 W / see Table 2 below [dBm]

Frequency (MHz)	Peak Power (dBm)	Limit Max (dBm)
2402	0.51	30
2440	0.31	30
2480	0.30	30

Table 2: Conducted Output Power

- Effective Isotropic Radiated Power (EIRP): see Table 3 below

Temperature	2402 MHz	2440 MHz	2480 MHz	Limit
+5°C	3,7 dBm	2,3 dBm	2,0 dBm	20 dBm
+20°C	3,3 dBm	1,8 dBm	2,2 dBm	20 dBm
+35°C	3,0 dBm	1,6 dBm	2,0 dBm	20 dBm

Table 3: Max Burst EIRP (antenna gain already added)

- Cable Loss: n/a
- Measured Bandwidth: see Table 4 below
Measurement Method: see Table 4 below
- 99% Bandwidth/Necessary Bandwidth: see Table 4 below

Frequency (MHz)	20 dB Bandwidth (MHz)	6 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit
2402	1.210	0.712	1.050	≥ 500 kHz
2440	1.220	0.732	1.055	≥ 500 kHz
2480	1.215	0.712	1.060	≥ 500 kHz

Table 4: Emission Bandwidth

- Spurious Emission (worst case): 29.92 dBμV : Distance: 3 m

- Photos of Applied Model: see Appendix A