

Radiated power calculation

Peak Output Power

Operating Mode (Modulation)	Maximum Average Power Measured (dBm)	Antenna Gain (dBi)	Maximum Average EIRP (dBm)	Maximum Average EIRP (mW)
1Mbps Bluetooth GFSK 9.5dBm nominal	6.36	0.8	7.16	5.2

Distance to 10W/m²

$$Pr = Pt / 4 * \pi * r^2$$

	EIRP (mW)	Pr (W)	r(cm)
Pt			
1Mbps Bluetooth GFSK 9.5dBm nominal	5.2	10	0.64

Therefore distance for 10w/m² is rounded up to 1cm from the internal antenna, this keeps the distance common for all displays in the series.