

Supra

Antennas specification

## Change history

Version	Author	Date	Change	Status
0.1	Olli Savolainen	13.1.2021		Draft
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## 1 Introduction

Framery Supra Alfred requirements has been described in “Framery Alfred Supra specification”, managed by Framery. This document describes antenna specification of Framery Supra Alfred.

## 2 Antenna specification

Framery Supra Alfred Control Unit has three antennas, which has been integrated to PWB. First antenna is LTE Mains antenna, second LTE diversity antenna and third BLE antenna.

LTE antenna operation frequency:	824 – 849MHz	(GSM 850)
	1850 – 1910MHz	(GSM 1900)
	1850 – 1910MHz	(WCDMA 2)
	1710 – 1755MHz	(WCDMA 4)
	824 – 849MHz	(WCDMA 5)
	1850 – 1910MHz	(LTE 2)
	1710 – 1755MHz	(LTE 4)
	824 – 849MHz	(LTE 5)
	699 – 716MHz	(LTE 7)
	777 – 878MHz	(LTE 12)
	788 – 798MHz	(LTE 13)
	1850 – 1915MHz	(LTE 25)
	814 – 849MHz	(LTE 26)
	2496 – 2690MHz	(LTE 41)

Bluetooth antenna operation frequency:	2400 – 2483.5MHz
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### 2.1 LTE Main antenna

LTE Main antenna type:	Omnidirectional antenna
Maximum antenna gain [G]:	+5dBi

### 2.2 LTE diversity antenna

LTE Main antenna type:	Omnidirectional antenna
Maximum antenna gain [G]:	+5dBi

### 2.3 BLE antenna

Bluetooth antenna type:	Omnidirectional antenna
Maximum antenna gain [G]:	+5dBi

### 3 Manufacturing process

PWB has manufactured according to IPC-2221 class 2 standard.