

# Antennas

## STP8X Series Hand-portable radio

### STP8X Antenna Options

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# 1. Document History

Issue	Description
1	Initial release
2	Frequency ranges of 300-00883 and 310-00008 corrected to reflect use with STP8X040 radios. Added GPS gain table and removed text that was in that section before. Shortened introductory paragraph. Removed references to STP8X138 and STP8X140 as these are now obsolete.
3	GPS and BT frequency ranges modified to reflect the standard operating ranges. GPS: 1559 MHz – 1610 MHz, BT: 2402 MHz -2480 MHz. Clarified that GPS antennas are receiver only.

## 2. Introduction

Sepura offers a range of antennas suitable for use with STP8X radios. This document details the available antennas.

### 2.1. Scope

This document covers the following STP8X radio(s):

STP8X038 and STP8X040

### 3. Antenna Options

#### 3.1. TETRA Antennas for STP8X038 Radios

The following TETRA antennas are available for use with the STP8X038, connected directly to the radio.

Model	Frequency Range	Description	Gain (dBi)
300-00882	410 MHz -430 MHz	Extended Helical Antenna	0.95
300-00883	380 MHz -414 MHz	Extended Helical Antenna	0.62
310-00008	380 MHz -430 MHz	Extended Helical Antenna	0.85

#### 3.2. TETRA Antennas for STP8X040 Radios

The following TETRA antennas are available for use with the STP8X040, connected directly to the radio.

Model	Frequency Range	Description	Gain (dBi)
300-00882	410 MHz -430 MHz	Extended Helical Antenna	1.22
300-00883	407 MHz -414 MHz	Extended Helical Antenna	1.86
300-00884	450 MHz -470 MHz	Extended Helical Antenna	0.67
310-00008	407 MHz -430 MHz	Extended Helical Antenna	1.77

### 3.3. GPS Antennas

GPS receiver antennas are built into the TETRA antennas for STP8X Series radios.

Model	Frequency Range	Description	Gain (dBic)
300-00882	1559 MHz – 1610 MHz	Extended Helical Antenna	-4
300-00883	1559 MHz – 1610 MHz	Extended Helical Antenna	-3.5
300-00884	1559 MHz – 1610 MHz	Extended Helical Antenna	-2
310-00008	1559 MHz – 1610 MHz	Extended Helical Antenna	-3.5

### 3.4. Bluetooth Antennas

The following antennas are built into all STP8X Series radios.

Model	Frequency Range	Description	Gain (dBi)
SPR-02456	2402 MHz -2480 MHz	Antenna Chip Dielectric 2442 MHz	-2.9

## 3.5. References

Further information and documentation on these antennas can be found in '\\SERV12\\tetradev\\product\_conformance\\Product Certification\\06 Accessories\\Antennas'.

**END OF DOCUMENT**

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