

## RX OCTENNA 1785-1805

**High gain flat panel antenna for 1785-1805 MHz with integrated bandfilters & LNA.  
To be used with STAR1800 wireless digital audio link receiver.**

The antenna is an attractively styled flat panel dipole array.

The antenna is small and lightweight, due to an extremely high aperture & dimensional efficiency in comparison to helix, corner or parabolic antennas.

The radiation patterns are very clean.

Thanks to the ABS housing, there is no performance degradation, even under rain, snow or ice conditions.

### Typical specifications:

Passive gain: 13dBi (flat within 0.3dB)

Active gain: 30dB

Absolute max input power LNA: +10dBm

Beamwidth: +/-17°(H-pol azimuth) & +/-22°(V-pol azimuth)

Sidelobe max.: 18dB

Front/back: 30dB

Connector: Female F 75 Ohm

To enable the reception of even the smallest useful signal, a minimum distance to 1.8GHz GSM base-stations & handsets need to be regarded. The minimum distance from the Octenna in the main direction to these are: 200m for basestations, 28m for handsets (these figures are only the worst case scenario: as soon as the basestation is 30-40° off the main beam, it may be much closer without problems). If it happens that a 1800MHz GSM base station is exactly in the main direction at less than 200m, a sharper bandfilter can be ordered which will suppress the GSM signal.

Lightning protection: all parts connected to earth.

Polarisation: H or V mountable

Polarisation isolation: at least 30dB (H-mounted / vertically polarised wave and vice versa)

Mounting: 2 brackets bi-chromed

Dimensions: front: octangle with largest dimensions: 305 x 305 mm

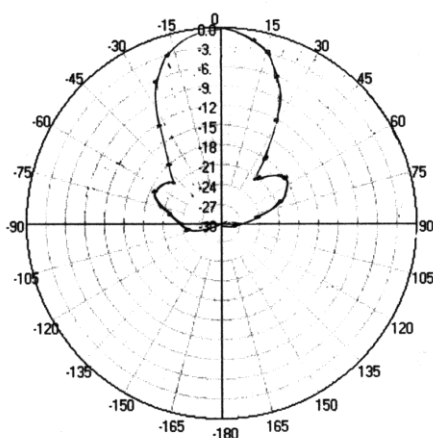
Mounting plate: square with corners cut off: 315 x 315 mm

Overall thickness: 38mm

Weight: 0.9kg.

Graphs: (small asymmetry in sidelobes due to internal wiring & electronics)

Azimuth for H-pol application:



Azimuth for V-pol application:

