

TX OCTENNA 1785-1805

Flat panel antenna for 1785-1805 MHz with final amplifier, filters and power measurement. To be used with STAT1800 wireless digital audio link transmitter.

The antenna is an attractively styled flat panel dipole array.

The antenna is small and lightweight.

The radiation patterns are very clean.

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

The output power is measured and digitally send via the coax to the STAT1800 indoor unit which adjusts its output to stabilise the power at the programmed value.

Typical specifications:

Beamwidth: $\pm 17^\circ$ (H-pol azimuth) & $\pm 22^\circ$ (V-pol azimuth)

Sidelobe max.: 18dB

Front/back: 30dB

Connector: Female F 75 Ohm

To be entirely safe there will be no intermodulation spurious, 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. If a GSM 1800 basestation is too nearby, 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

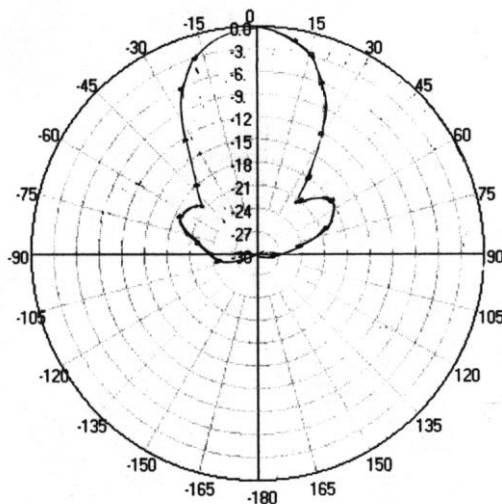
Mounting plate: square with corners cut off: 315 x 315 mm

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:

