

RX GRID PARABOLA 1785-1805

Very high gain grid parabolic antenna for 1785-1805 MHz with integrated bandfilters & LNA. To be used with STAR1800 wireless digital audio link receiver.

This grid parabola has 10dB more passive gain than the standard RX Octenna's. It is used for difficult reception sites or to increase the link distance.

The grid parabola has a low wind load but is as effective as a solid dish for this frequency band. The feed gives an engineered distribution across the parabolic aperture to obtain high gain and low sidelobes. The feed is sealed in an ABS housing, so rain and (melting) snow have no effect.

Typical specifications:

Passive gain: 23dBi (flat within 0.3dB)

Active gain: 30dB

Absolute max input power LNA: +10dBm

Beamwidth (V-pol): +/-4°(azimuth) & +/-8° (elevation)

Sidelobe suppr.: 23dB

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 grid parabola in the main direction to these are: 500m for basestations, 70m for handsets (these figures are only the worst case scenario: as soon as the basestation is 10-15° 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 500m, a sharper bandfilter can be ordered which will suppress the GSM signal.

Lightning protection: all parts connected to earth.

Polarisation: H or V mountable, preferably V-pol

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

Mounting: 2 brackets bi-chromed

Dimensions: 600 x 1000 mm

feeder extends: 370mm

Mounting mast diameter: up to 54mm

Weight: 3kg.

Graphs:

Azimuth for V-pol application:

Elevation for V-pol application:

