



# Directional single antenna

## Features

- Directional
- 10.5 dBi gain
- 1880-1920 MHz
- Mountable to wall or pole

## General

The 'directional single antenna' is a flat directional antenna housed in a plastic shroud and fitted with 1 meter of coaxial cable and a MCX male connector. The antenna includes a rotating bracket for wall installation. It can be adjusted in both a vertical and a horizontal plane. The mounting bracket allows installation by strapping around a pole with a diameter of 30 to 60 mm. A steel strap (10-15 mm) is not included.

## Specifications

Specifications subject to change without prior notice.

### General

Manufacturer: MAT Equipment  
Product code manufacturer: MA420X44

### Physical

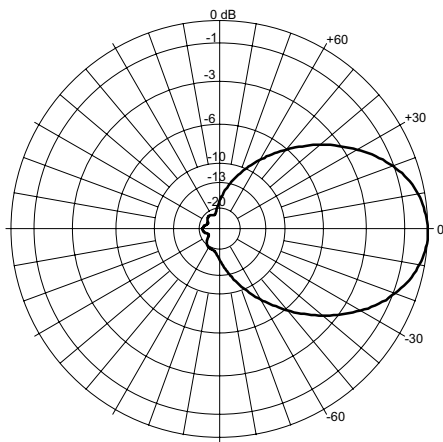
Size (h × w × th): 270(w) × 140(h) × 35 mm (panel thickness)  
Mounting stand-off: 71 mm (wall to back of antenna)  
Weight: ≈ 0.82 kg  
Material/colour:  
shroud: UV-resistant plastic, grey RAL 7035  
bracket: aluminium and zamak

### Environmental

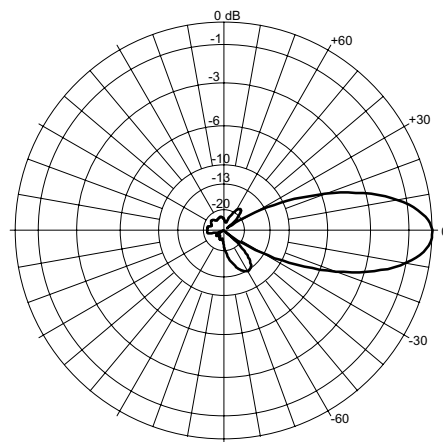
Operating temperature: -33 to +55 °C

### Functional Specs

Frequency: range 1880 to 1920 MHz  
Nominal impedance: 50 ohms  
VSWR: ≤ 1.6  
Polarization: linear, vertical  
Gain (at connector level): 9.5 dBi ± 0.3 dBi  
Radiation in horizontal plane: beam width (H-plane) at -3 dB: ≈ 69°  
Radiation in vertical plane: beam width (E-plane) at -3 dB: ≈ 31°  
Maximum power: 10 watts  
Connector: MCX male connector at the end of a 1 m RG316 coaxial cable (minimum bending radius: 20 mm)  
Orientation capability: ± 45° in azimuth (horizontal plane) ± 15° in elevation (vertical plane)



Typical radiation in horizontal plane



Typical radiation in vertical plane

Ascom Tateco AB  
 Wireless Solutions  
 PO Box 8783 SE-402 76 GÖTEBORG  
 T -46 31 55 94 00 F +46 31 55 63 78  
[www.ascom.com/ws](http://www.ascom.com/ws)

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