

Magnetic Mount, Triple-frequency Mobile Antenna for the 900 MHz and UMTS Bands

DESCRIPTION

- Triple-frequency antenna – three bands – one antenna!
- Covering both EGSM/NMT-900, DCS-1800/PCN and UMTS.
- For direct use with:
 - an EGSM/DCS-1800/PCN mobile phone (single or dual-band)
 - or
 - an EGSM and a DCS-1800/PCN mobile phone or UMTS-terminal (requires diplexer, type DIPX 1000/1550).
- Stainless steel MMS-mount.
- Low profile magnetic mount.
- Provided with FME-connection (supplied without cable).



ORDERING

Type	Product No.
MU 901/1801/UMTS-MMS	130001253

SPECIFICATIONS

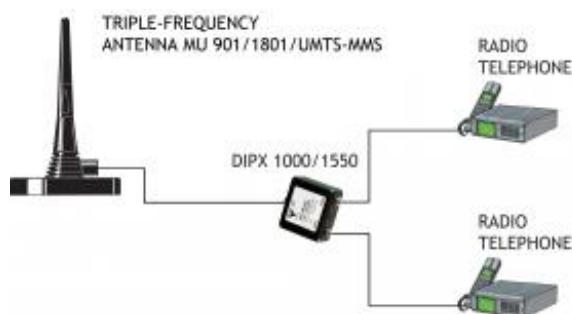
Electrical	
Model	MU 901/1801/UMTS-MMS
Frequency	880-960 MHz (EGSM/NMT-900) 1710-1880 MHz (DCS-1800/PCN) and 1900-2200 MHz (UMTS)
Antenna Type	Triple-frequency antenna
Polarisation	Vertical
Impedance	50 Ω
Maximum Input Power	25 W
Bandwidth	900 MHz: > 40 MHz @ SWR = 1.5:1 1800 MHz: Approx. 200 MHz @ SWR = 2.0:1 (typ.) 1900-2200 MHz @ SWR = 2.0:1 (typ.)
Gain (EIA RS-329-1)	0 dB
Mechanical	
Materials	Whip: Black cover POM Black-chromed brass Mount: Stainless steel Brass Environment-proof plastics
Cable	FME-cable to be ordered separately
Installation Torque	3.5 Nm max.
Colour	Black
Height	115 mm / 4.53 in.
Weight	0.3 kg / 0.66 lb
Mounting	Centre of vehicle roof for best omnidirectional coverage
Maximum Car Speed	180 km/h

ADDITIONAL DATA

OPERATION USING A DIPLEXER

In case of operating two transceivers on one antenna at the same time, a diplexer, type DIPX 1000/1550, is necessary to complete the system. The tasks of the diplexer are to protect the two receiver inputs from being destroyed by the transmitter in the contrary band, and to ensure a low-loss path between the transceiver and the antenna, which is not loaded by the other branch. For further details please see the separate data sheet on the DIPX 1000/1550. The diplexer fully covers both bands and, consequently, tuning to specific frequencies is not required.

COUPLING DIAGRAM

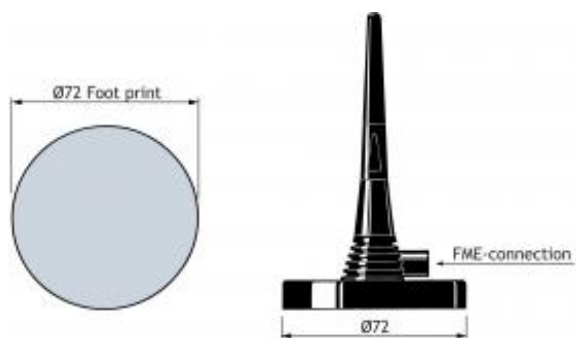


INSTALLATION

The MU 901/1801/UMTS-MMS should be mounted at the centre of the vehicle roof to ensure best omnidirectional coverage. The MiniMag (MMS) magnetic mount is especially suited for temporary antenna installations where it is not desirable to drill a hole in the vehicle. The magnetic mount can advantageously serve several vehicles by shifting it from one vehicle to another. The MiniMag (MMS) is provided with a thoroughly magnetized permanent ring magnet positioned in a carefully shaped magnetic circuit which yields an extraordinarily high attaching effect and makes this mount stand for very high values of bending moment and mechanical shock.

A silicone layer applied to the contact surface protects the car roof and ensures maximum friction.

1. INSTALLATION DIMENSIONS



2. TUNING

The antenna is delivered factory-tuned and requires no further tuning.

PLEASE NOTE

For safety reasons:

When using the MU 901/1801/UMTS-MMS, car speed must not exceed 180 km/h.