

Schulze Radio Systems - An der Bleiche 9 - D-60437 Frankfurt - Tel +49-6101-5196051 Fax -5196053 - www.srsw.de - mail@srsw.de



DESCRIPTION

The rotary antenna ATS-M is a very small and light directional antenna for use on aircraft and ground vehicles. The waterproof design and the very robust construction of this antenna make it suitable for use even under very hostile environmental conditions.

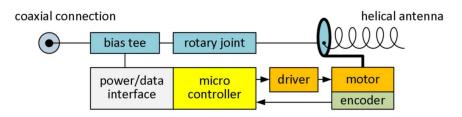
Circular polarization, the high gain and the automatic tracking of the other station enable a range several times as great as with linear polarization and an omnidirectional antenna.

The coax connection supplies the HF signal, the operating voltage and the control signals for the tracking antenna. The control protocol is compatible with WINS, the modular IP transmission system.

By using an optionally available interface box, the antenna can be used in stand-alone operation. In this case the target coordinates are supplied through a serial interface or Ethernet.

The antenna is available in two connection types: axial SMA connection for a direct link to the interior of the vehicle (version designation '-1') and radial TNC connection for an external cable connection (version designation '-2').

FUNCTIONAL BLOCK DIAGRAM





Schulze Radio Systems - An der Bleiche 9 - D-60437 Frankfurt - Tel +49-6101-5196051 Fax -5196053 - www.srsw.de - mail@srsw.de

SPECIFICATIONS

Model

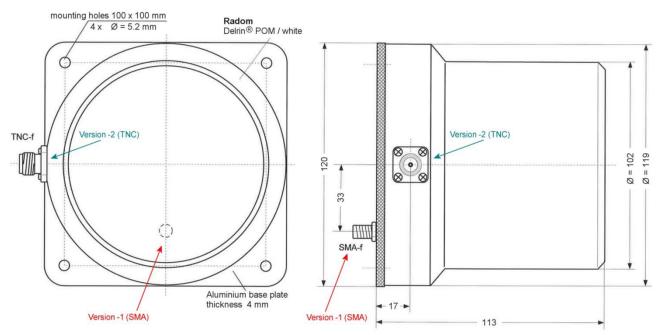
Frequency Range

Gain

Polarization Beam Width (-3 dB az./elev.) Pointing Accuracy Maximum Angular Velocity Front to Back Ratio Impedance VSWR Maximum Input Power Maximum Speed Altitude Radome Material **Command/Control Protocol** Supply Voltage Current Draw (rotating) Current Draw (idle, LEDs off) **Operating Temperature** Humidity Vibration Shock (1/2 sine) Dimensions Weight **RF Input Connector**

ATS-M-1 (SMA) ATS-M-2 (TNC) 4400 - 5500 MHz other frequencies on request 9 dBic circular RHC 60 degrees ±1.5° (depends on compass accuracy) 24º/sec >20 dB 50 Ohm < 1.5 : 1 20 Watt 450 km/h ≤ 5000 m Delrin[®] POM WINS (through the antenna cable) 10 - 16 Vdc (through the antenna cable) 500 mA max. 30 mA -40°C to +85°C ≤ 95% RH 10g (sine 20Hz-2kHz) 100g peak (11ms) 113 mm (height) x 120 mm x 120 mm 750 g SMA (ATS-M-1: axial through baseplate) TNC (ATS-M-2: radial through radom base)

OUTLINE DRAWING



latest version of this datasheet $\rightarrow ats_m12_datasheet.pdf$

dimensions in mm