

The antenna AD-18/G-2210 is an ultra wideband dipole mobile antenna intended for use in the frequency range from 225 to 1000 MHz, mainly intended for use in heavy duty mobile applications.

The antenna is composed from two main parts: the radiator and the antenna base. The radiator is made of 28 mm diameter fiberglass whip with special radiating elements firmly placed inside. The antenna base has built-in biconical spring enables resistivity against mechanical impacts. Electrically the antenna is designed as center-fed thus the electrical characteristics are independent from the ground or mounting place.

The antenna is painted with two component UV resistant polyurethane military green paint (RAL 6014).

The antenna base has an option of additional built-in GPS active antenna. Stainless steel spring absorbs the shocks and the vibrations, in addition protects the antenna against impacts. The radiating element is made of composite materials enable outstanding strength and roughness even in hardest conditions of use.

The antenna base has four mounting holes equally spaced on a 4.5" (114.3 mm) circle which complies with NATO standard. Different base plate dimensions are available on request.

The antenna radiator is painted with military green (RAL-6014) two-component UV resistant paint.

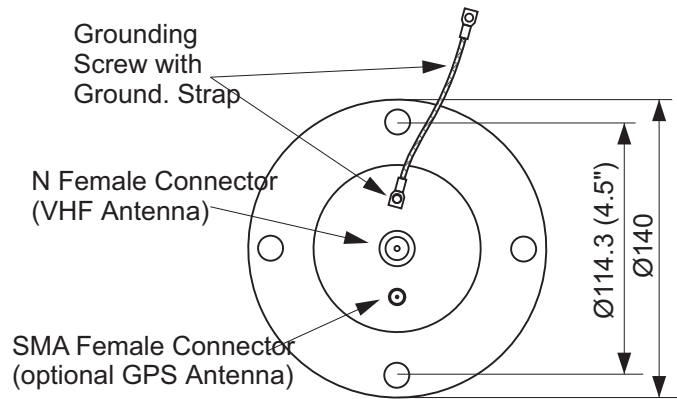
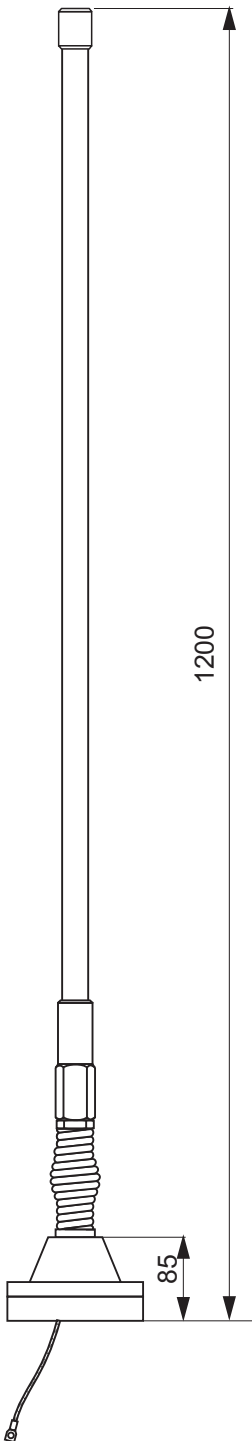
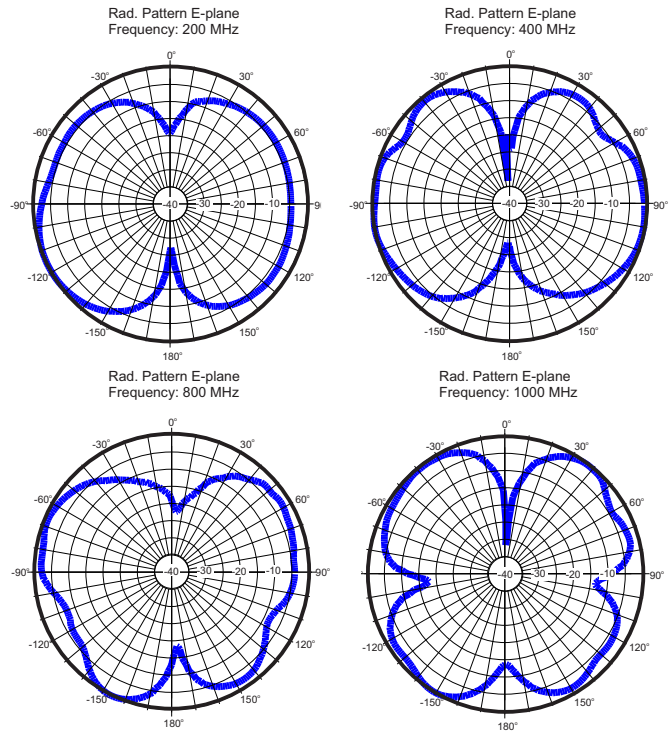
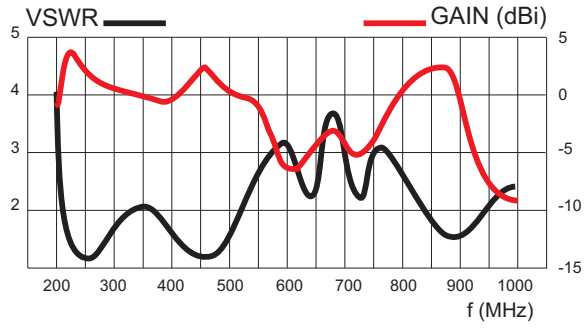
ELECTRICAL SPECIFICATIONS - UHF:	
Frequency range	225 - 1000 MHz
Impedance	50 ohms
VSWR	< 3,5
Gain	typ. -10 +3 dB (see diagram)
Polarization	vert.
Maximum power	50 W CW
Connector	N female (BNC female optional)
ELECTRICAL SPECIFICATIONS - GPS:	
Frequency range	L1 1575.42 +/- 10 MHz
Impedance	50 ohms
VSWR	< 2
Polarization	RHC
LNA Gain / Voltage / Current	18 dB (+/- 2 dB) / 5 V / 19 mA 16 dB (+/- 2 dB) / 3.5 V / 13 mA 10 dB (+/- 2 dB) / 2 V / 7 mA
Noise fig.	<1.5 dB
Connector	SMA female
MECHANICAL SPECIFICATIONS:	
Design	Center-fed whip (UHF); patch antenna with LNA (GPS)
Height	1.2 m
Weight	2.8 kg
Max. high voltage rating	16 kV
Temperature range - in use	-50 ... +55 °C
Temperature range - in stock	-55 ... +75 °C
Wind rating	45 m/s (160 km/h)
Color	MIL Green

VERSIONS:

AD-18/G-2210: UHF antenna

AD-18/G-2210G: combined UHF and GPS antenna (L1)





ANTENNA BASE -
BOTTOM VIEW