

AM-406 Multi-Sector Antenna

The AM-406 is a multisector antenna, which has been developed by SVP Broadcast Microwave. This is a very compact, robust and easy-to-install solution for applications where hemispherical coverage with high gain is needed.

The AM-406 antenna is formed of 5 vertical linear polarization sector panel antennas to offer an omnidirectional coverage. It also has an up antenna which allows hemispherical coverage.

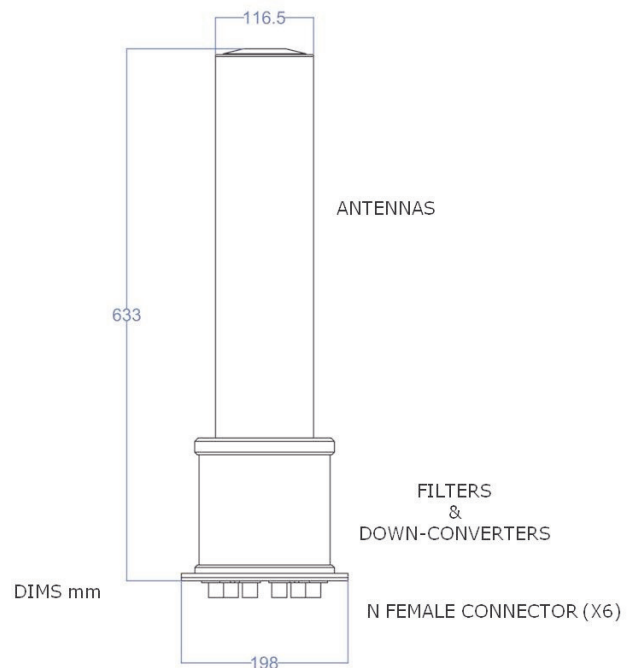
The AM-406 antenna integrates the bandpass filters and the down-converters. At the TNC connector outputs it offers the received signal filtered, amplified and converted to the UHF band.

This antenna has been designed to be used in the receiver site in airborne links in diversity 6 mode; the up-down antenna allows the reception of the signal coming from the helicopter even if it is in the vertical direction.

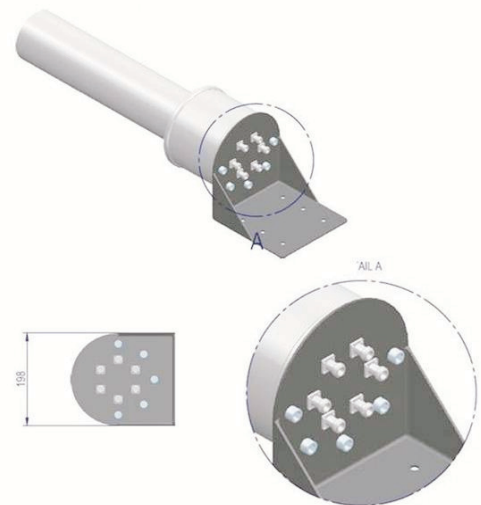
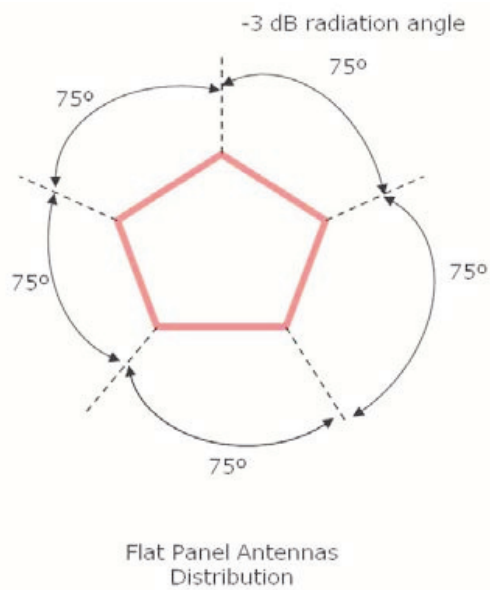
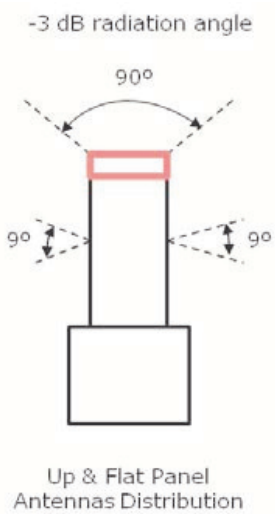
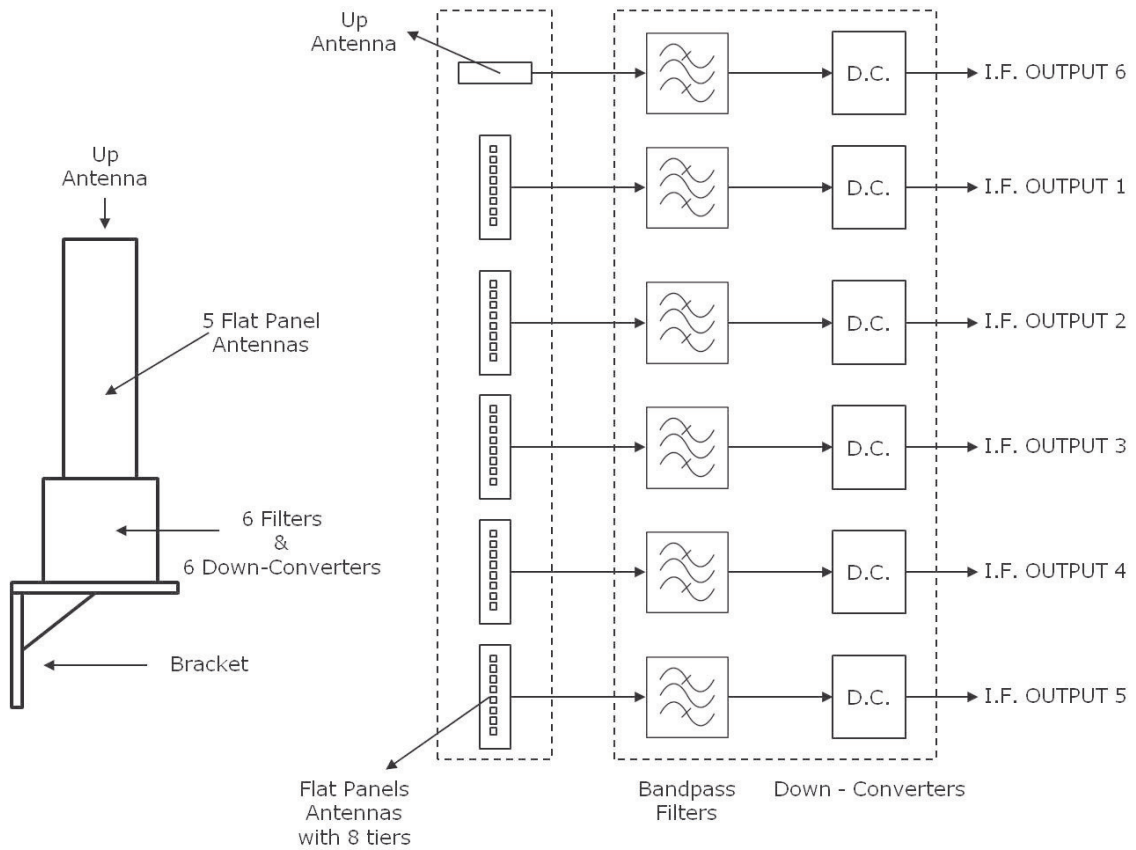


Characteristics

Frequency	4.5 to 5.0 GHz
Gain	Panel antenna: 16.5 dBi Up-down antenna: 5 dBi
Elevation beamwidth	9°
Azimuth beamwidth	75° (x5)
Polarization	5 Panel antennas: Vertical linear 1 Up antenna: RHCP
Diameter	198 mm (max)
Length	633 mm
Weight	6.5 Kg
Down-Converters	Included 6 units
Conversion Gain	30 dB
Noise Figure	<1,5 dB
Local Oscillator	4,100 MHz
Phase Noise	-98 dBc/Hz @ 10 kHz
Power Supply	7 to 36 V
Filter	10-pole cavity Insertion Loss (4.5-5.0 GHz): 0.5 dB Attenuation @ 4.15 GHz: 55 dB Attenuation @ 5.35 GHz: 55 dB
Connector	6xTNC female
P/N	AM-406-4750



Schematic & Planes



Design and specifications are subject to changes without prior notice. 07/17