

AM-404 Multi-Sector Antenna

The AM-404 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 omnidirectional coverage with high gain is needed.

The AM-404 antenna is formed of 4 flat panel antennas to offer an omnidirectional coverage.

The AM-404 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-4 mode and as high-gain reception point in autonomous cameras of a mobile unit.



Characteristics

Frequency	4.5 to 5.0 GHz
Polarization	Vertical
Gain	4 panel antennas: 12 dBi
Number of dipole/sector	4
Elevation beamwidth	18°
Azimuth beamwidth	110° (x4)
Diameter	221 - 120 mm
Length	455 mm
Weight	5.5 Kg
Down-Converters	4 units included
Conversion Gain	30 dB
Noise Figure	< 1.5 dB
Local Oscillator	4.100 MHz
Phase Noise	-98 dBc/Hz @ 10 kHz
Power Supply	12 to 36 V by coaxial cable
Filter	10-pole cavity
Insertion Loss	< 0,5 dB
Connectors	4 x TNC female
Mount	Stainless steel bracket and U bolts
P/N	AM-404-4540



Schematic & Planes

