



Description:

After the WRC2007, new recommendations for spectrum allocation have been released internationally. The resolution 418 resolves the usage of the band 5091-5250 MHz by the aeronautical mobile service for telemetry applications. Taking into account customers concerns during the transition time with programs at different bands, Prodetel has designed a set of solutions that will provide equipment life extension with a reasonable investment. Our solutions are focused on:

- Antenna feeder upgrades for new C-band keeping S-band capabilities
- Frequency conversion for life extension of S-Band existing receivers
- New affordable antenna systems with dual or triple band capabilities and precision composite reflectors reusing existing positioners

Specification:

Parameter	Specification
Operating Frequency	Low S band: 2300 to 2400 MHz (Typical FM LOS) High S band: 2700 to 2800 MHz (A400M COFDM LOS) C band: 5090 to 5250 MHz
Antenna type	4 to 12 feet segmented or solid reflectors.
Typical Gain (4 ft.)	S band 26dBi C band 34dBi
Typical Gain (8 ft.)	S band 32dBi C band 40dBi
Polarization	Dual Polarization simultaneous RHCP and LHCP
3dB beam width (4 ft.)	S band: 6.5 deg C band: 3.3 deg
3dB beam width (8 ft.)	S band: 3.3 deg C band: 1.6 deg



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