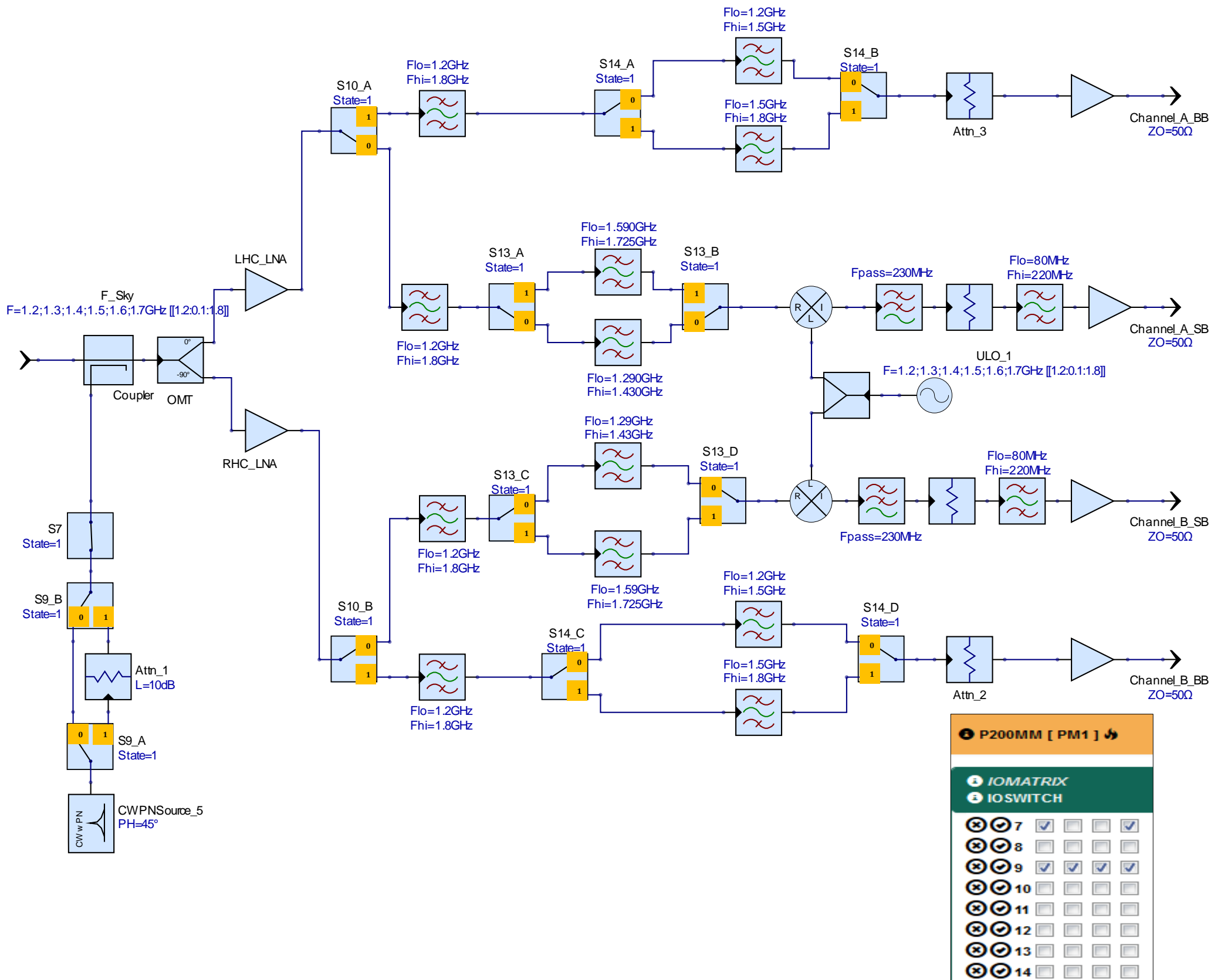


18cm/21cm Primary Focus Cabin Receiver (1270-1730 MHz) System Block Diagram



RF Switch Name	S10		S13				S14				IF Channels	
RF Switch Combination	S10_A	S10_B	S13_A	S13_B	S13_C	S13_D	S14_A	S14_B	S14_C	S14_D	Channel A & B Narrow Band	Channel A & B Wide Band
Switch Stateⁱ	0		0				0				Lower Band RF Signal is Coming (140MHz)	No RF Signal is Coming (300 MHz)
			1				1				Higher Band RF Signal is Coming (140MHz)	No RF Signal is Coming (300 MHz)
Switch State	1		0				0				No RF Signal is Coming (140MHz)	Lower Band RF Signal is Coming (300MHz)
			1				1				No RF Signal is Coming (140MHz)	Higher Band RF Signal is Coming (300MHz)
Switch S9 State S9 =0 ; No Attenuation is selected S9 =1; 10 dB Attenuation selected							Switch S7 State S7 =0 ; Noise Source Calibration is not selected S7 =1; Noise source Calibration is selected					

18cm/21cm Primary focus cabin receiver (1270-1730 MHz)

The receiver is used for continuum, VLBI, spectroscopy and pulsar observation. Since this band is found in GSM frequency bands-DCS1800 (1800MHz) -The uplink(mobile cell to mobile base station frequency -1710.2MHz to 1784.8 MHz) may influence the receiver's band. And there fore, RFI plays a big role for disterbing the receiver system.