

## System Specifications

### *Analog System :*

Input Freq : 30 - 1600 MHz  
Input Power : -24 dBm  
Max Bandwidth : 400 MHz  
Headroom : 27 dB  
Output power : -12 dBm  
Noise Contribution to FE < 0.01 K  
Filter bank – 7 filter selection  
1 BB converted signal  
Power detector at input and output  
Noise + CW cal signal at input  
Noise (var corr) cal at ADC input

### *Digital System :*

ADC No. of Bits : 8 bits  
Inst Bandwidth : 400 MHz  
FFT No. of Channels : 8 K  
Mode Available : Full polar  
Coarse and Fine Delay correction  
Fringe rotation  
Interferometer with dump times ~ 100 ms  
Incoherent and Phased array beam outputs : at least 2 beams for each; with full time resolution  
Pulsar back-ends attached to the beam outputs