ROACH2: S-Engine
210 MHz Clock, 16 x 8 2D FFT

XAUI (5.12 Gb/s)

XAUI Link Error Check

S-Engine Window Buffer

8 point FFT

Zero Pad

Square Transpose

16 point FFT

Zero Pad

SFFT Image

Power

Vector Accumulator 128 x 128 beams

Vector Accumulator QDR : 128 x 1024

1 GbE

Beamformer

8 Beam Selector

10 GbE

SW Control