ROACH1: X-Engine
200 MHz Clock, 32 Auto Correlations, 480 Cross Correlations

XAUI (5.12 Gb/s)

XAUI Link Error Check

Half Band Select

X-Engine Window Buffer

Pipelined X-Engine
4 bit
16 Full Stokes
128 samples

Vector Accumulator
QDR: 557056 vec

Half Band Select

X-Engine Window Buffer

Pipelined X-Engine
4 bit
16 Full Stokes
128 samples

Vector Accumulator
QDR: 557056 vec

SPEAD Packetizer
Output Mux

10 GbE

SW Control