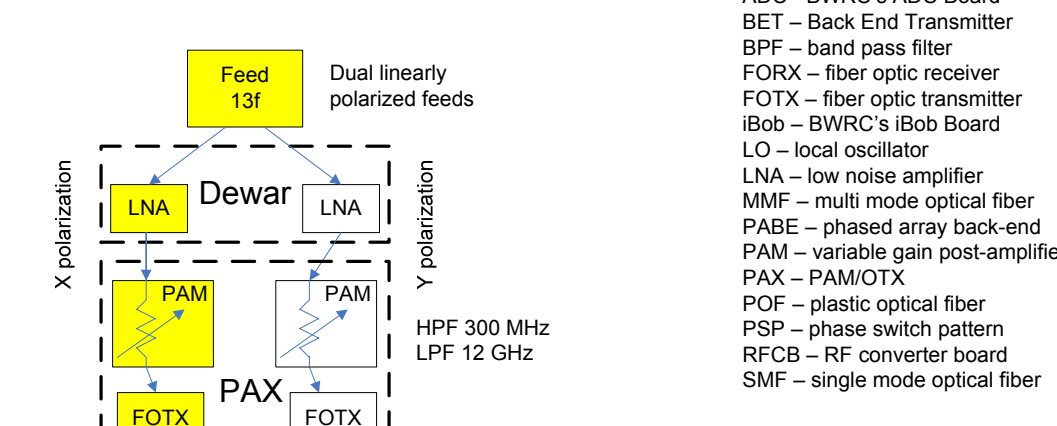


# ATA Signal Path for ATA Correlator ATA-FX32 with BWRC's iBob and ADCs (by antenna by card)

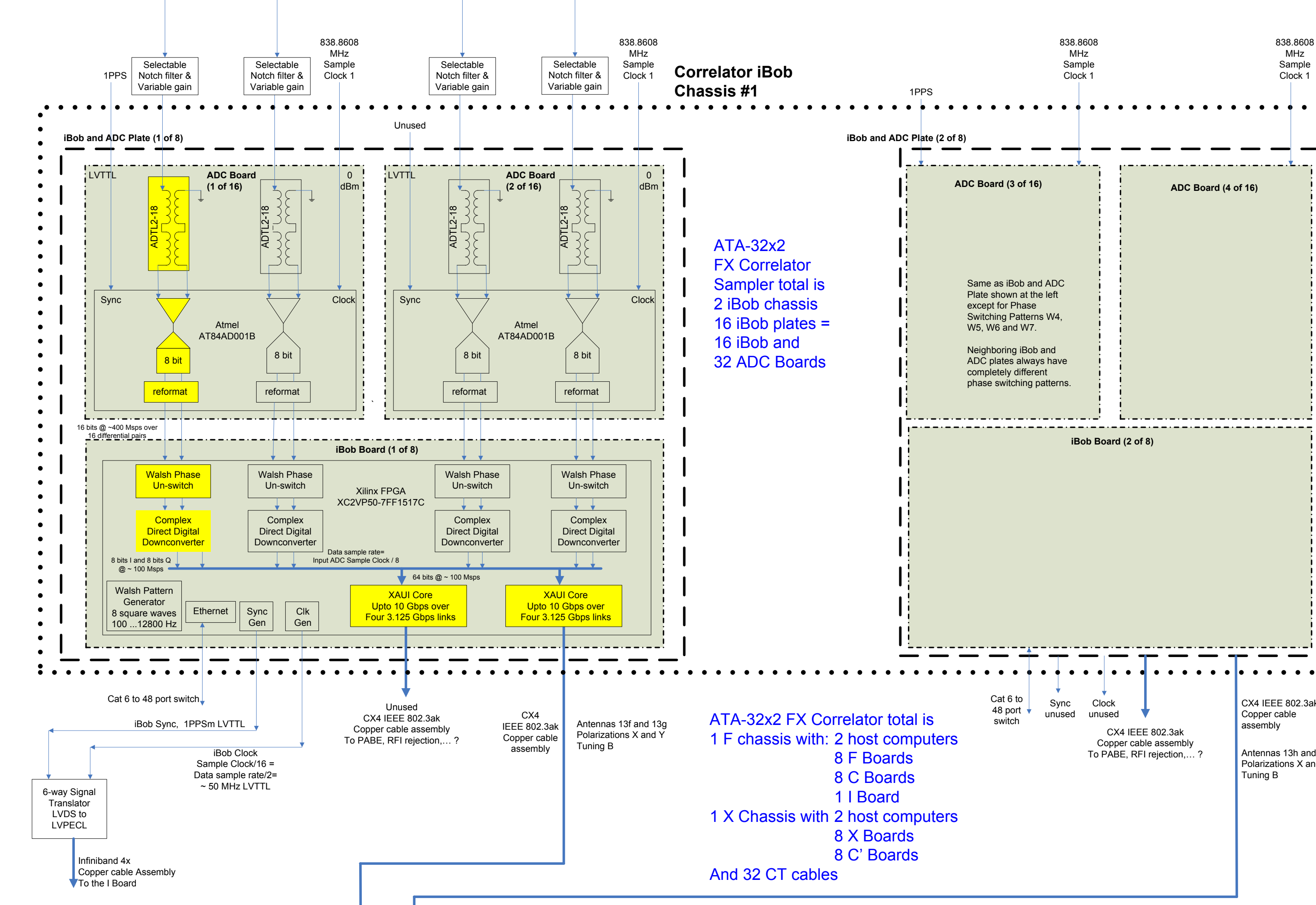
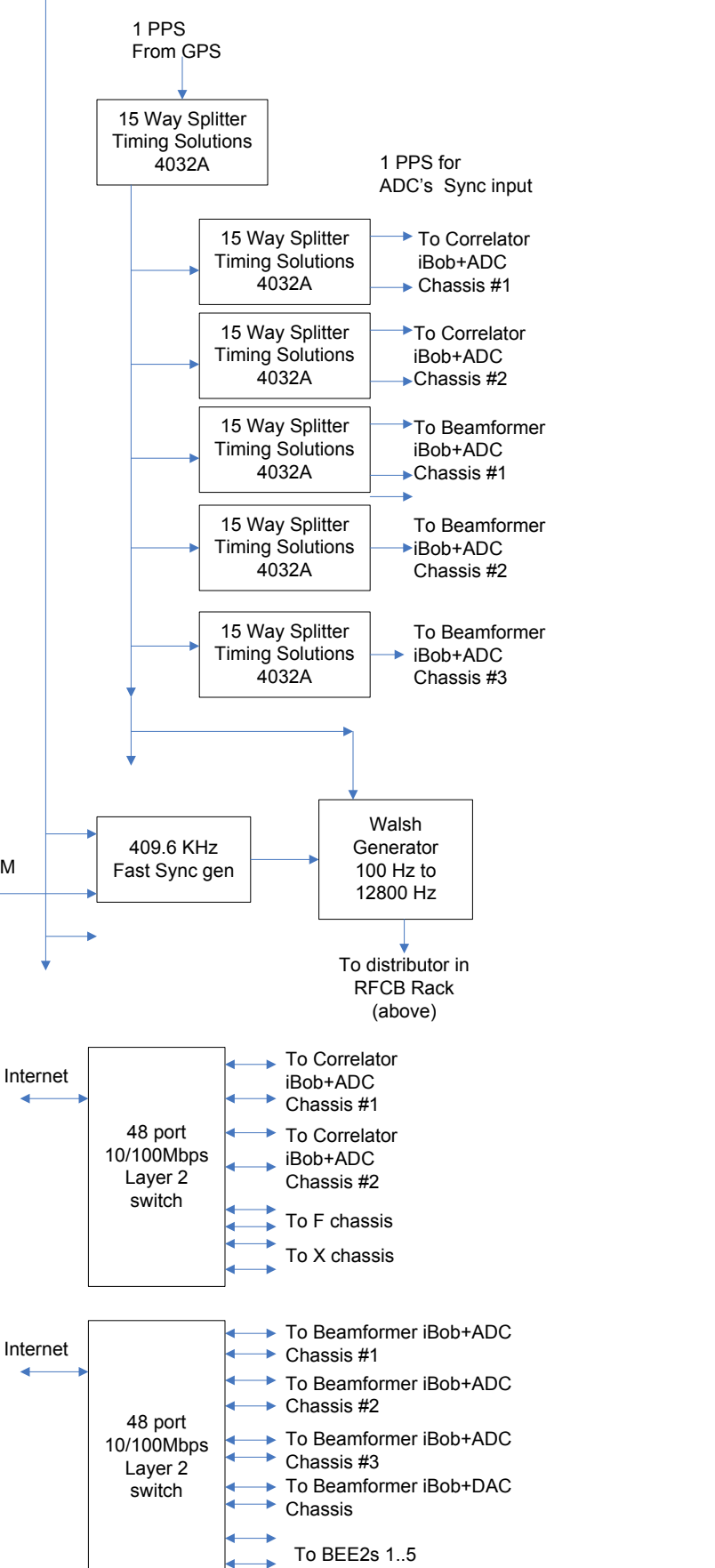
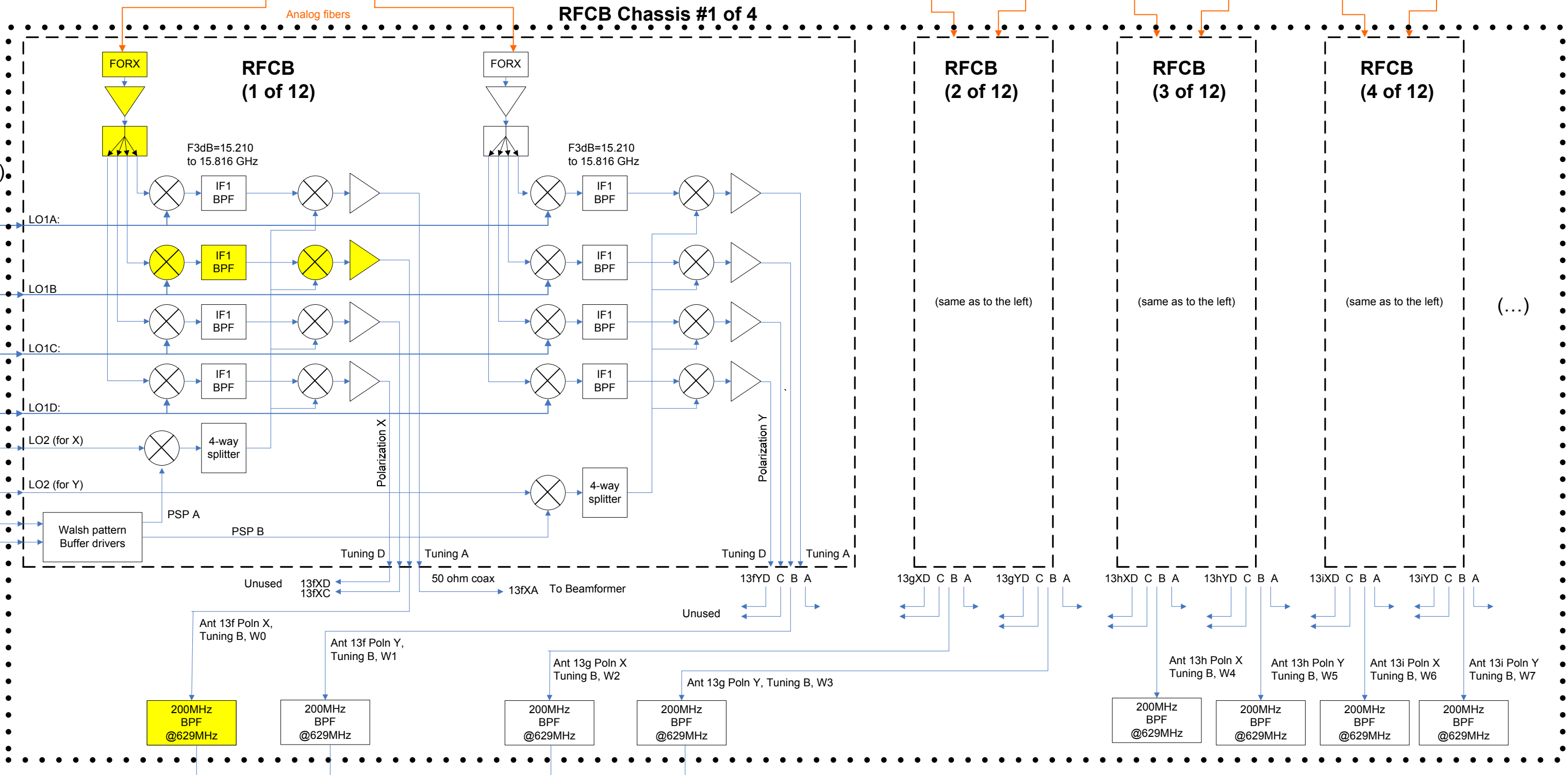
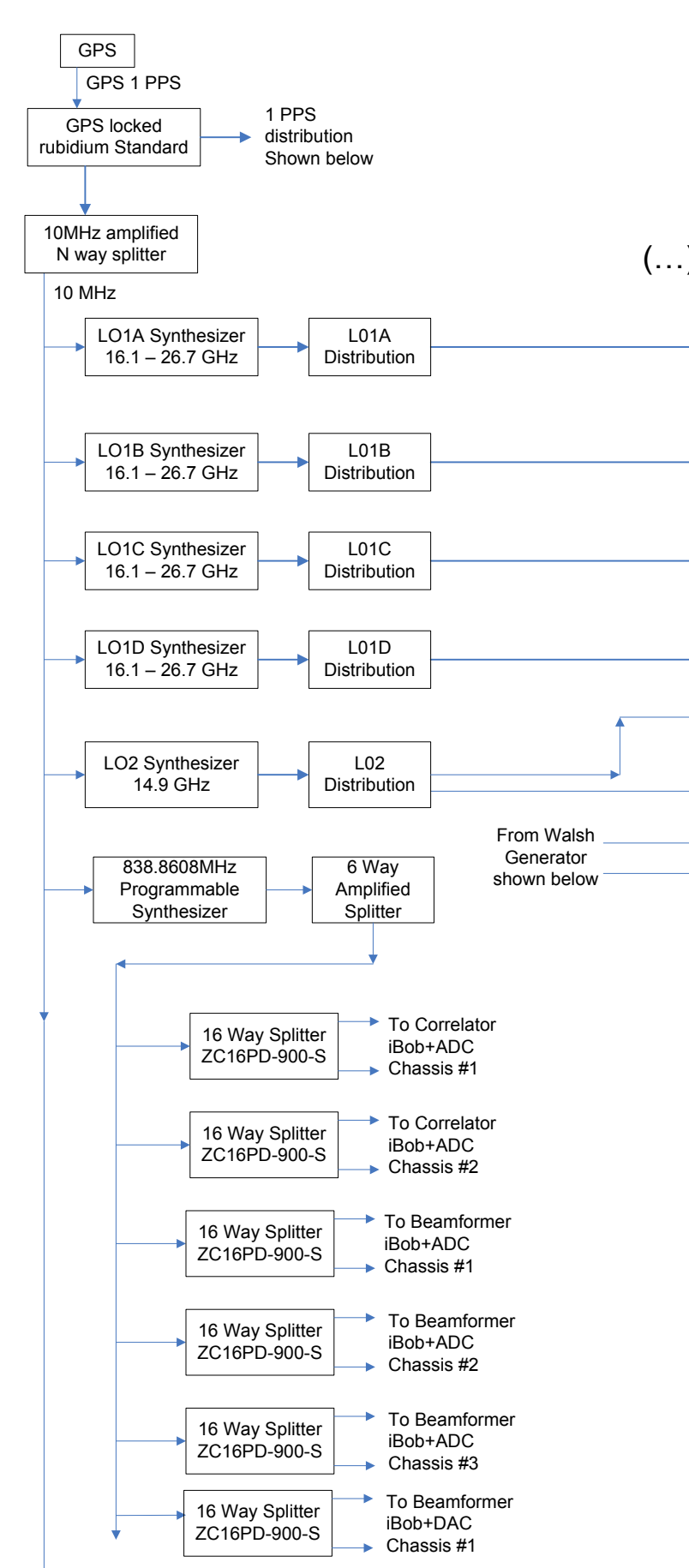
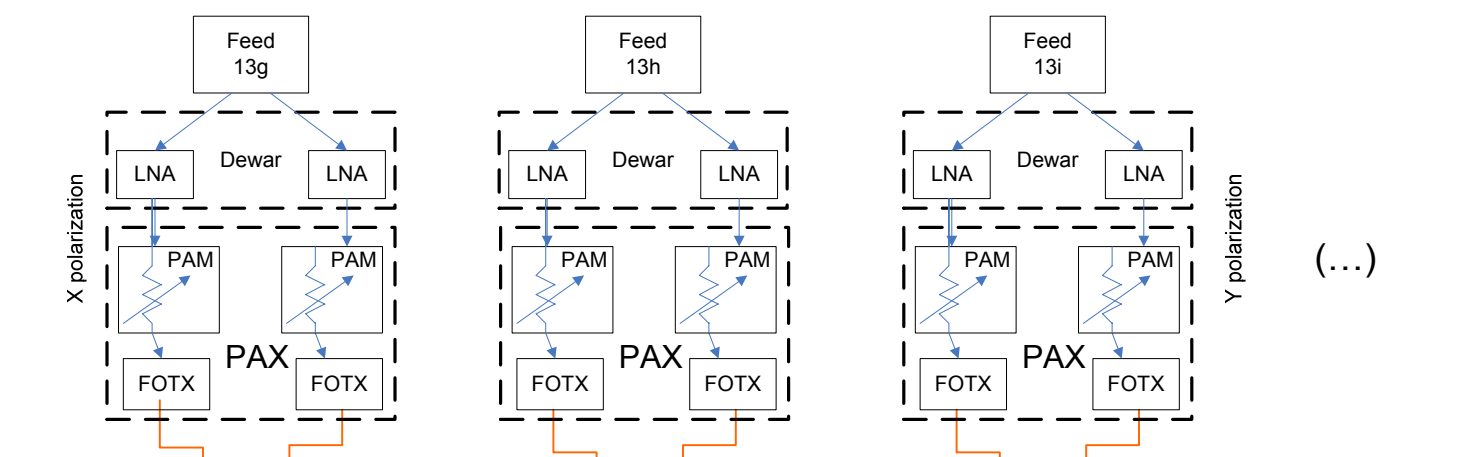
Signal path designator  
Zone (1-35)  
Element (a-m)  
Polarization (X|Y)  
Tuning (A|B|C|D)  
Delay set (1-4)

Example: 13XB3  
13 refers to the "zone"  
X refers to the "element" within that zone  
B refers to the "polarization"  
3 refers to the "tuning"  
3 refers to the "delay set", which defines the phasing for a beam

13f refers to a particular "antenna"  
13XB refers to a particular "analog stream" on analog fiber  
XB3 refers to a "beam" (or "digital stream")  
13\*X refers to the X-pol fibers from zone 13



ADC - BWRC's ADC Board  
BET - Back End Transmitter  
BPF - band pass filter  
FORX - fiber optic receiver  
FOTX - fiber optic transmitter  
iBob - BWRC's iBob Board  
LO - local oscillator  
LNA - low noise amplifier  
MMF - multi mode optical fiber  
PABE - phased array back-end  
PAM - variable gain post-amplifier module  
POF - plastic optical fiber  
PSP - phase switch pattern  
RFCB - RF converter board  
SMF - single mode optical fiber



ATA-32x2 FX Correlator Sampler total is 2 iBob chassis = 16 iBob plates = 16 iBob and 32 ADC Boards

ATA-32x2 FX Correlator total is 1 F chassis with: 2 host computers, 8 F Boards, 8 C Boards, 1 I Board, 1 X Chassis with 2 host computers, 8 X Boards, 8 C' Boards, and 32 CT cables

