

Note 1: Use switching regulators for digital components and linear regulators for ADCs and synthesizer.

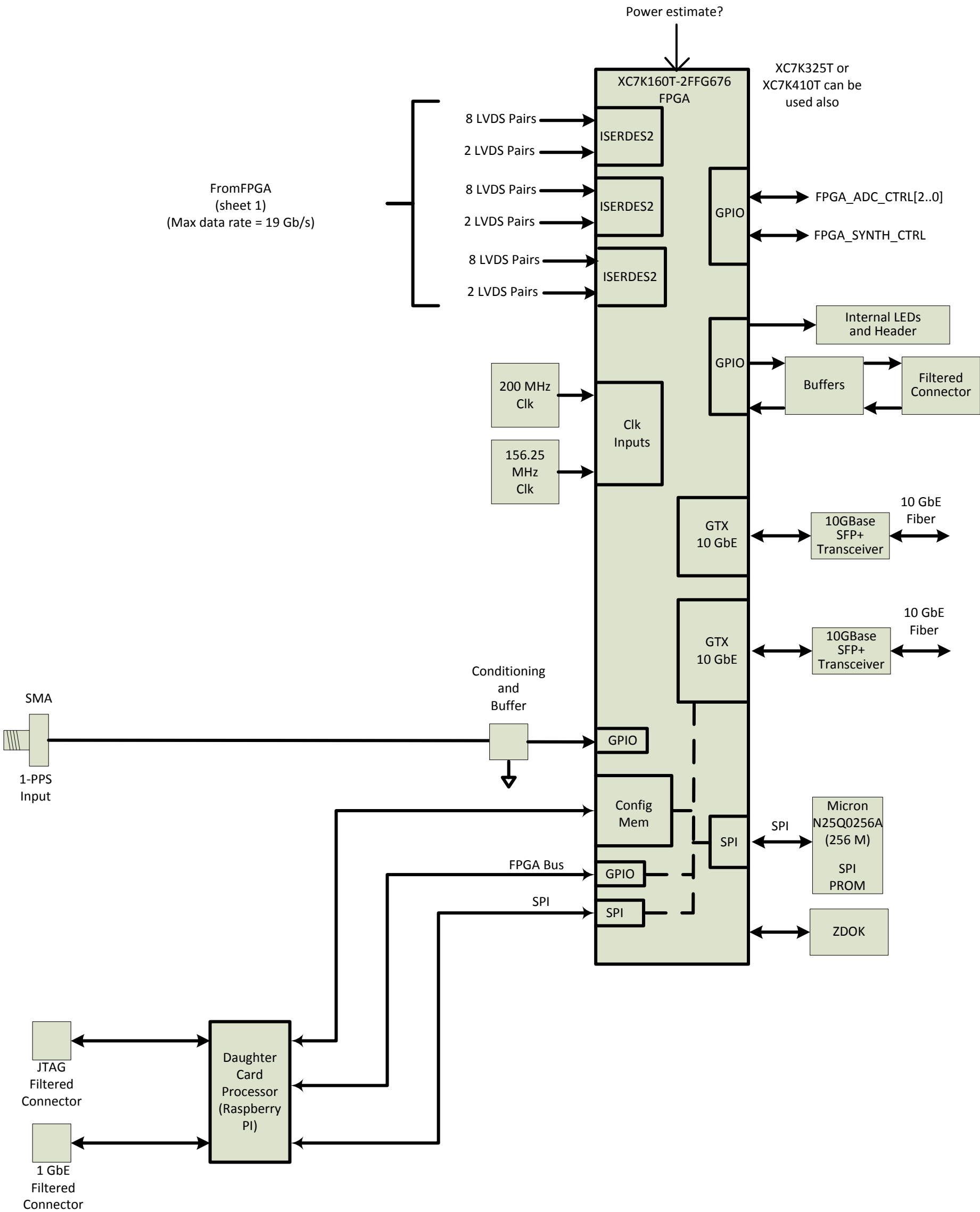
Note 2: Keep the layout for the balun and termination similar to existing Berkeley design

Note 3: All components are enclosed in an shielded case. I/O is via shielded connector and the 10 GbE fiber is routed out of the case via “wave guide beyond cutoff.

Note 4: Clock logic for ADC is functional to 1 Gs/s.

Note 5: The LMX2581 (TI) was selected over HMC1034LP6GE (Hittite). LMX2581 (TI) has poorer, but adequate performance, and much better price.

Note 6: SMAs can be board or box mounted.



Power Requirements		
Component	Volts	Milliamps
HMCAD1511	1.8	400, per ADC
HMC987LP5E	3.3	100
FPGA		
10 GbE XCVRs		Depends on type
Processor		