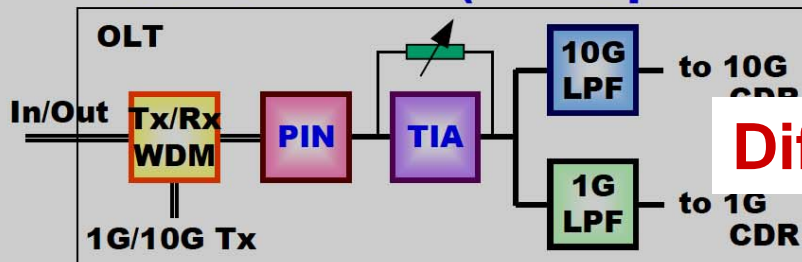


PX10 U/S 1G/10G Dual-mode RX

for new Power Budget by Dr. F.E.

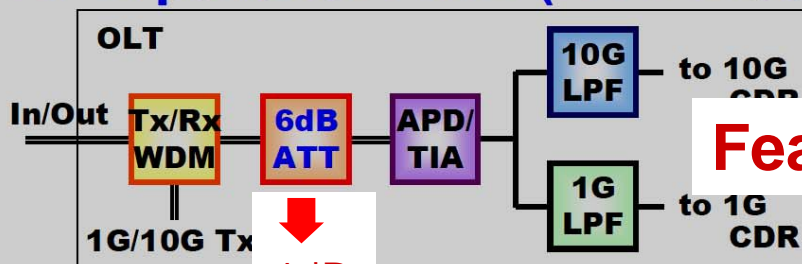
PIN serial PMD (TIA optimized)



Difficult

Mean power (dBm)	OLT in	APD in
1G Sensitivity	-24	
1G Overload	-1	
10G Sensitivity	-22	-19
10G Overload	-1	0
10G Launch (ONU)	-1	+2

APD parallel PMD (ATT inserted)

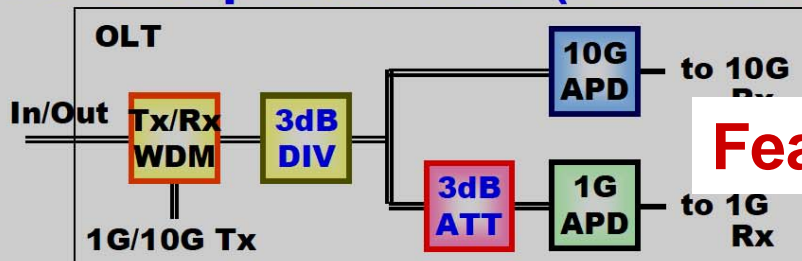


4dB
ATT

Feasible

1G Sensitivity	-24	-28	-30
1G Overload	-1	-5	-7
10G Sensitivity	-22	-20	-26
10G Overload	-1	+1	-5
10G Launch (ONU)	-1	+1	

APD separate Rx's (DIV inserted)



Feasible

1G Sensitivity	-24	-30
1G Overload	-1	-7
10G Sensitivity	-23	-26
10G Overload	-2	-5
10G Launch (ONU)	-2	

E-FEC assumed for sensitivities