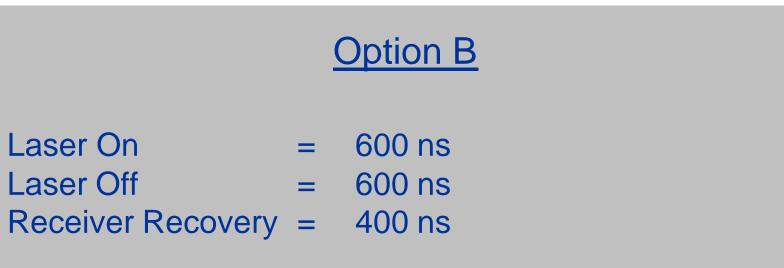
Summary of PON Optics Conference Calls

> Tom Murphy Infineon Technologies IEEE 802.3ah Vancouver. January 2003

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# **Timing Parameters**

#### Values for Option B



The above values are default and are using during discovery and registration. Operational values may be smaller depending upon implementation.

### Values for Option C

		<u>Option C</u>
Laser On Laser Off Receiver Recovery	=	16 ns 16 ns 400 ns

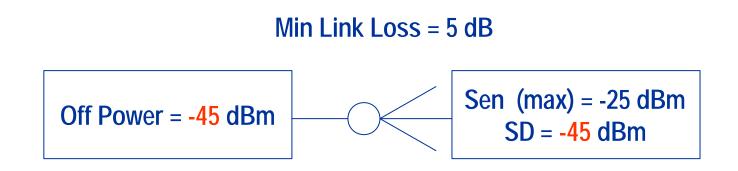
### Utilisation Comparison of Options B & C

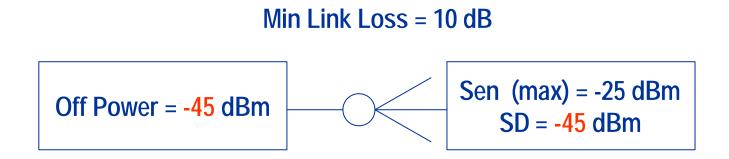
Parameter	Units	Option B		Option C	
Cycle Time	ms	1		1	
Number of grants per cycle		32		32	
MAC/PHY delay variability	ns	32		32	
CDR time	ns	650		650	
Laser ON time	ns	600	*	16	
Laser OFF time	ns	600	*	16	
Allow ON/OFF overlap		YES		YES	
Dead Zone	ns	728		144	
AGC time (receiver)	ns	400	*	400	
Reset signal required		NO		NO	Γ
AGC time (protocol)	ns	400		400	

Overhead	5,69%	3,82%	
Utilization	94,31%	96,18%	
Overhead (including 7.3% FEC overhead)	12,57%	10,84%	
Utilization (including 7.3% FEC overhead)	87,43%	89,16%	

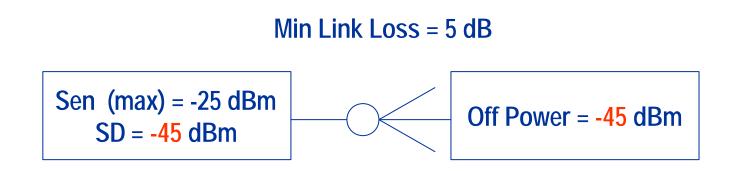
# Signal Detect for PON

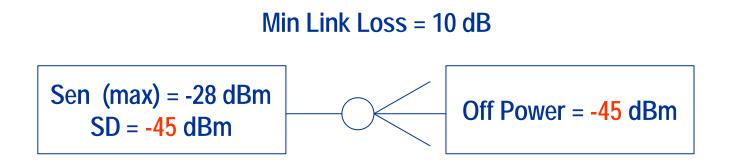
#### **Downstream Values**





### **Upstream Values**





Timing requirements for Burstmode Signal Detect???