



Five PMDs Provide Market Innovation

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Abstract

Five PMDs Provide Market Innovation

- **Market Innovation Requirements**
 - Sufficient options for future market to compete
 - Market driven economy --- users demand innovation, free competition
 - Five PMDs provide sufficient opportunities for innovation
 - Three PMDs insufficient opportunities for market innovation

- **PMDs Proposed**
 - CWDM -- 850 nm VCSEL
 - WWDM - 1310 DFB
 - Serial 850 - VSCEL
 - Serial 1310 - DFB (VCSEL also in proposal)
 - Serial 1550 -DFB

- **Proposed Operating Distance (meter)**
 - 100, 300, 10 km, 40 km

Cost-Effective Innovative PMDs

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Meter Fibers, um	100 (VSR)	300	10,000	40,000
62.5 Installed	CWDM	WWDM CWDM (Vortex Launch)		
50, Installed	CWDM	CWDM WWDM		
50, New	CWDM 850 serial	CWDM WWDM 850 serial		
10, SM			1310 serial WWDM	1550 serial

Conclusion

Five PMDs Provide Market Innovation

- Each PMD Provides Unique Technology Option for Cost-effectiveness
- Five PMDs Provide Opportunity for Market to Innovate and compete
 - CWDM
 - WWDM
 - 850 serial
 - 1310 serial
 - 1550 serial
- Support Five PMD Options