RFOptic
Optical RF Solutions

Value Proposition & Differentiators of the Progressive ODL System

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Low Cost, Affordable: ***The Progressive ODL system*** is the ***most cost-effective ODL system*** in the market for cases where the customer requires many different delay lines.

In case that the customer requires a ***significant amount*** of different delay lines (e.g. 8 to 256delay states), the ***Progressive ODL system*** is a one system solution that can scale the costs of utilizing many *Single ODL systems or several Switchable ODL systems. Using a* ***Progressive ODL system*** can provide you with savings of up to 200% -1000 % when compared to utilizing the traditional ODL systems depending on the number of delay lines.

Ease of Operation*:* ***The Progressive ODL system*** can operate with an ***Automatic Gain*** for all different delay states facilitating the use for the operator of the system.
For example, a 255 *us* delay line when compared to 1 *us* delay line, has a variance of about 25 dB loss between the two states, which can be 'automatically compensated' to ±1dB
This feature enables a much easier ***operation and a user-friendly customer experience***

Compact Design: *The Progressive ODL System* is ***much more compact*** than any other ODL architecture. The system is designed to fit where you need it, saving space and resources.

Easy Installation: *The Progressive ODL system* can be installed in a small space ***within a short time.***

Low Complexity: Our ***Progressive ODL System easily integrates to your system***. Because of its optimized design, it keeps the system simple as opposed to connecting it to many different ODL systems.

Reliability*:* Our ***Progressive ODL system has minimum number of fiber connectors,*** designed and tested as a ***most reliable ODL system.***
Below is an example comparison between different ODL architectures with different number of delay states:

	Cost Factor vs. # Delays: 8-256	Easy Operation (system gain var.)	Compactness	Installation	Complexity	Reliability *
Progressive ODL system	**1**	**Easy** ~ ±1 dB	**High** (1)	**Easy** (1)	**Simplicity**	**High**
Switching ODL systems	**~2-10**	**Uneasy** (~25 dB variance)	**Mid** (2-5)	**Difficult** (2-5)	**High Complexity**	**Mid**
Single ODL systems	**~10-50**	**Uneasy** (~25 dB variance)	**Low** (10-50)	**Difficult** (10-50)	**High Complexity**	**Mid**

* The Reliability is also 'High' for Standard/Switchable Delay system with one/few delays.

Differentiators:
RFOptic has created an innovative design of our ***Progressive Delay line*** system with unique features and optimized architecture of multiple delays, e.g. 8 to 256 delay states.

1. Most Cost-effective solution in the market for ODLs with many delay lines.
2. Automatic Gain Control mechanism for the ***Progressive Delay line*** *systems*.

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