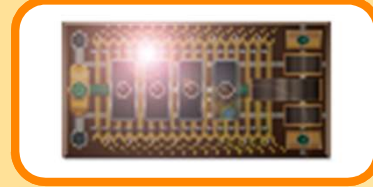


Recent Technological Achievements in Long Haul Fiber Transmission (Han Sun, Infinera)



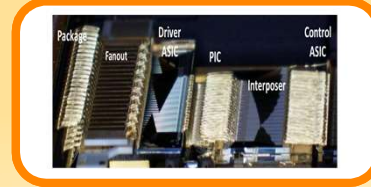
DIGITAL ELECTRONICS
7nm FlexCoherent™ DSP/ASIC

+



ANALOG ELECTRO-OPTICS
Dual wavelength PIC

+

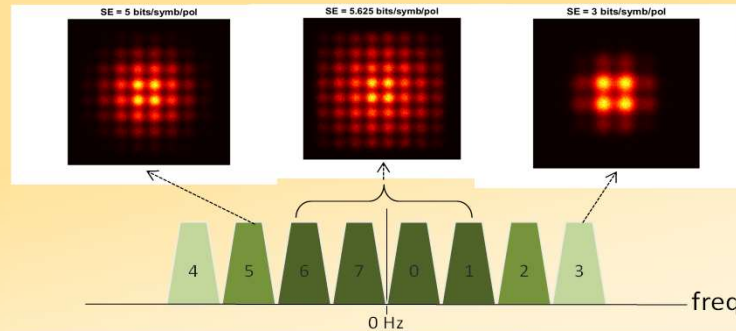
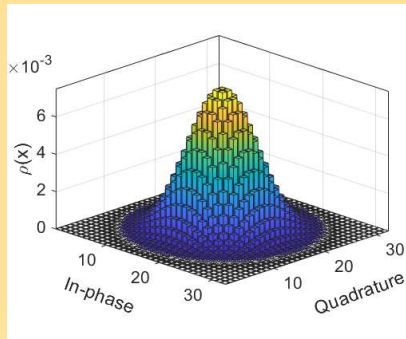


ADVANCED RF PACKAGING

=



Infinite Capacity Engine ICE6



Key Advantages:

- 96Gbaud Symbol Rate
- 200Gb → 800Gb per wave
- 2nd Generation Nyquist Subcarriers
- Long Codeword PCS

Date	Demo/Trial	Data Rate	Reach
March 2020	Lab Demo with Corning (Corning G.654.E TxF fiber)	800 Gb/s	800km
March 2020	North American Network (Third-party line system with live traffic)	800 Gb/s	950km
June 2020	Windstream, U.S. G.652 fiber	800 Gb/s	730 km
		700 Gb/s	1,460 km
July 2020	Verizon, U.S. G.655 LEAF fiber	800 Gb/s	667 km
		600 Gb/s	2,283 km
		400 Gb/s	4,091 km
December 2020	MAREA Transatlantic cable (28 Tb/s* – 30 Tb/s**)	650*/700** Gb/s	6,644 km

*Deployable results

**Hero results

Han Sun:

hsun@infinera.com

