





What is Silicon Photonics?

§ Enables:

Easier fabrication of
(passive) photonic devices

Easy interfacing of
electronics and (active)
photonic devices

Optical chip to chip
interconnect

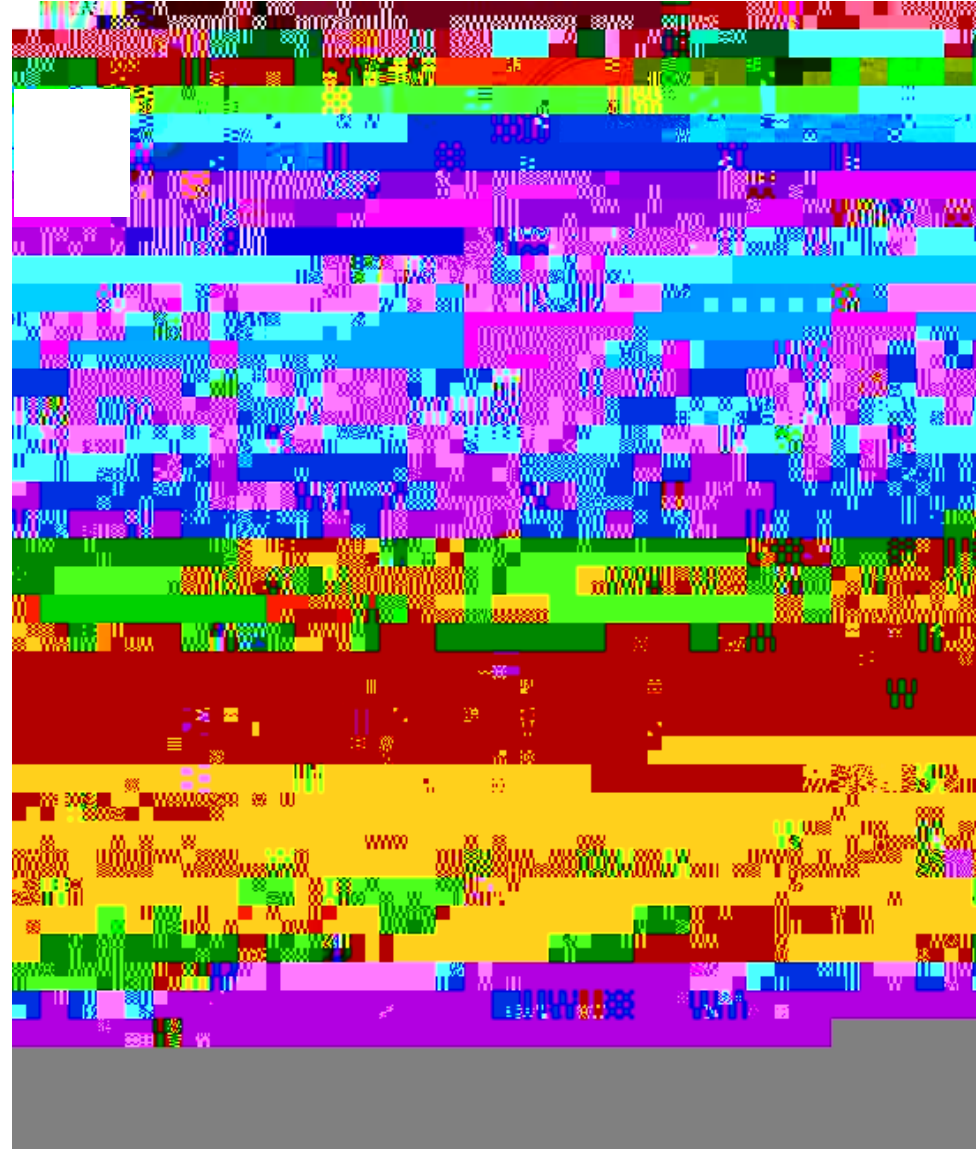
§ Applications:

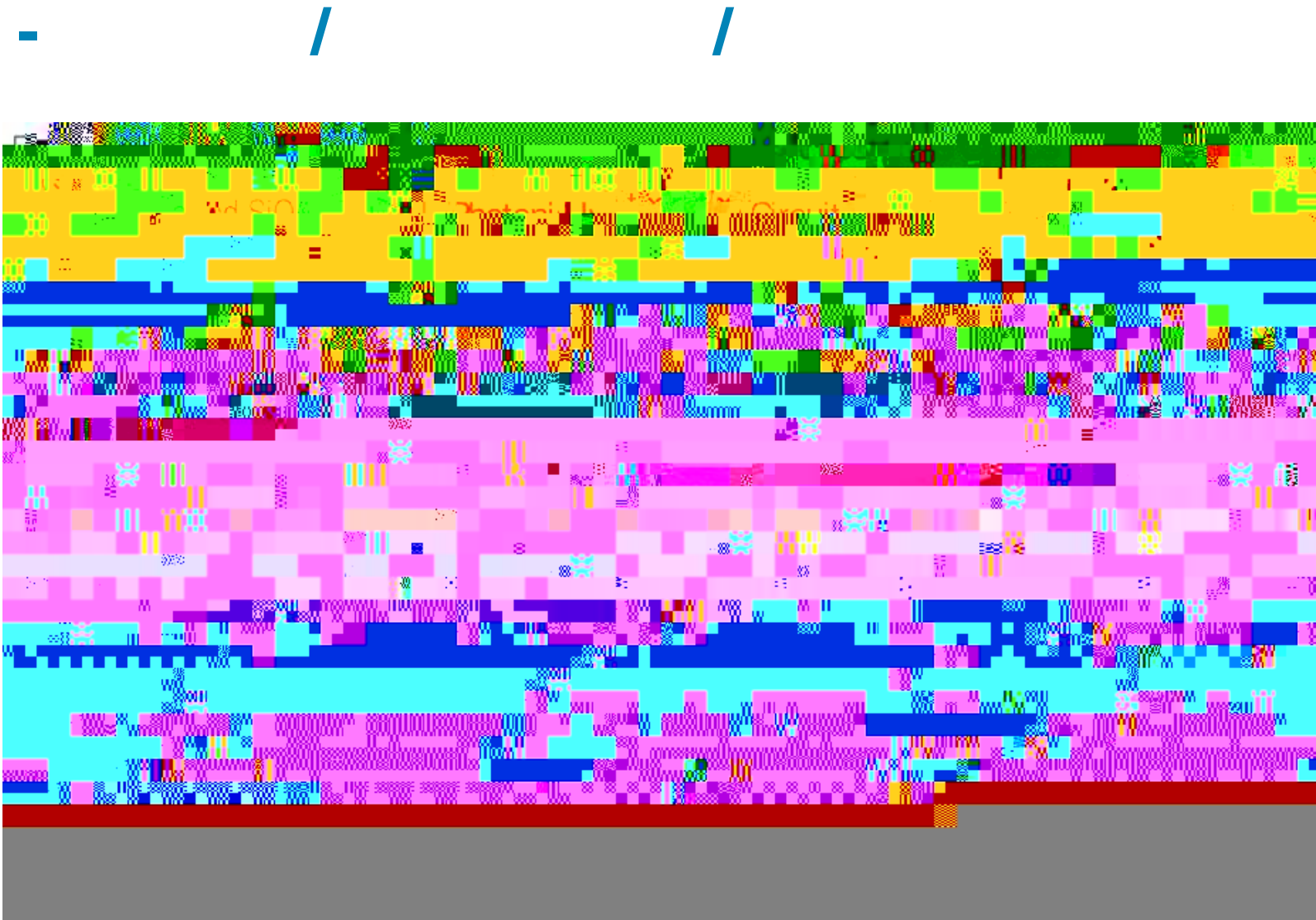
Passive devices

Modulators

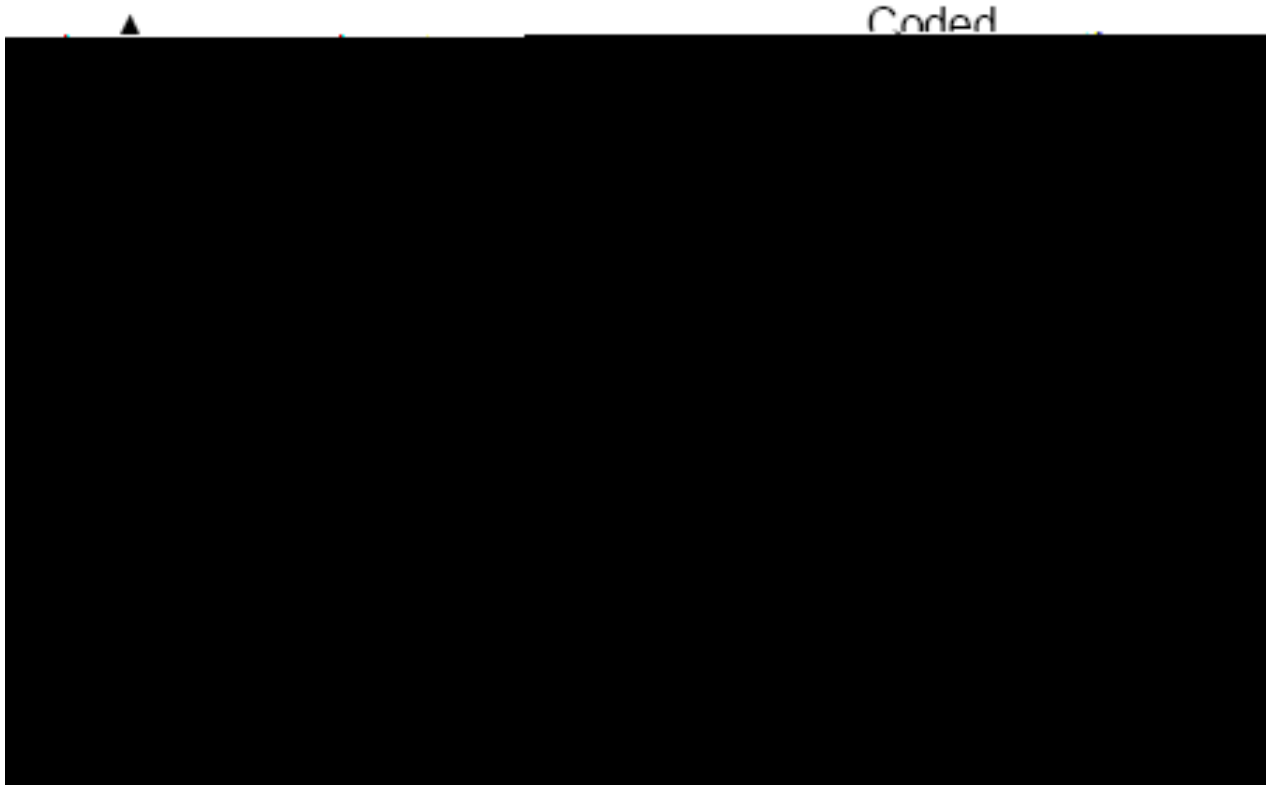
Lasers

Receivers

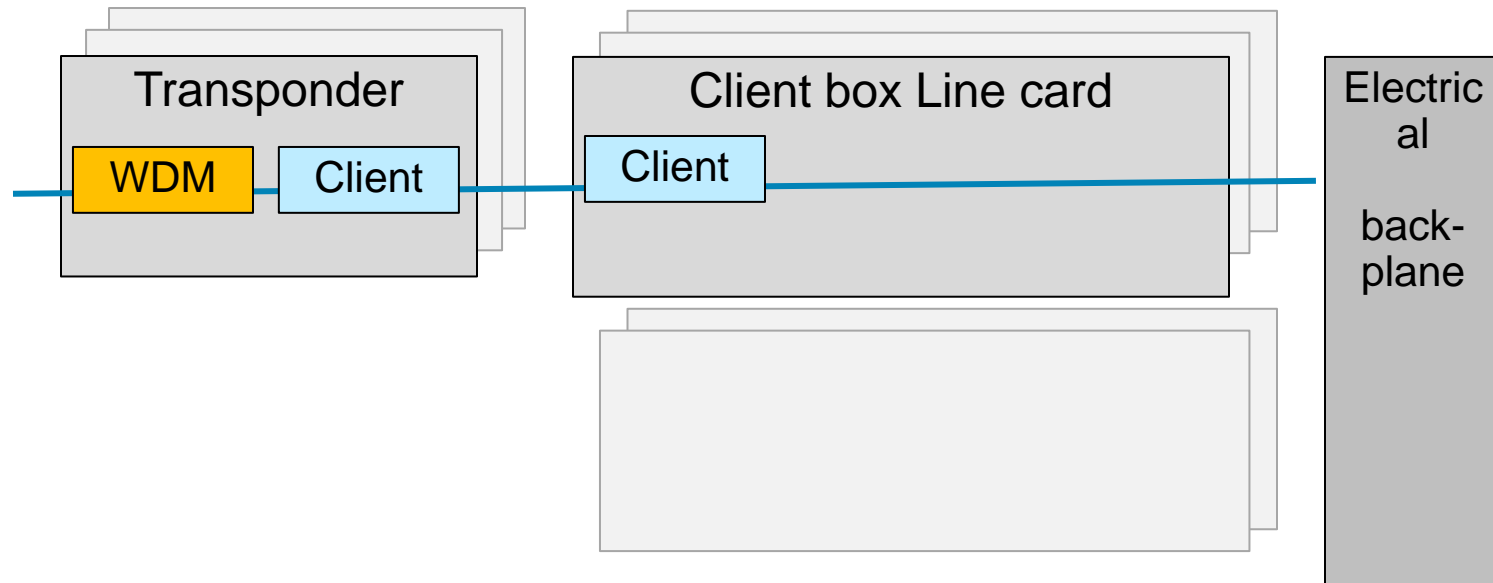


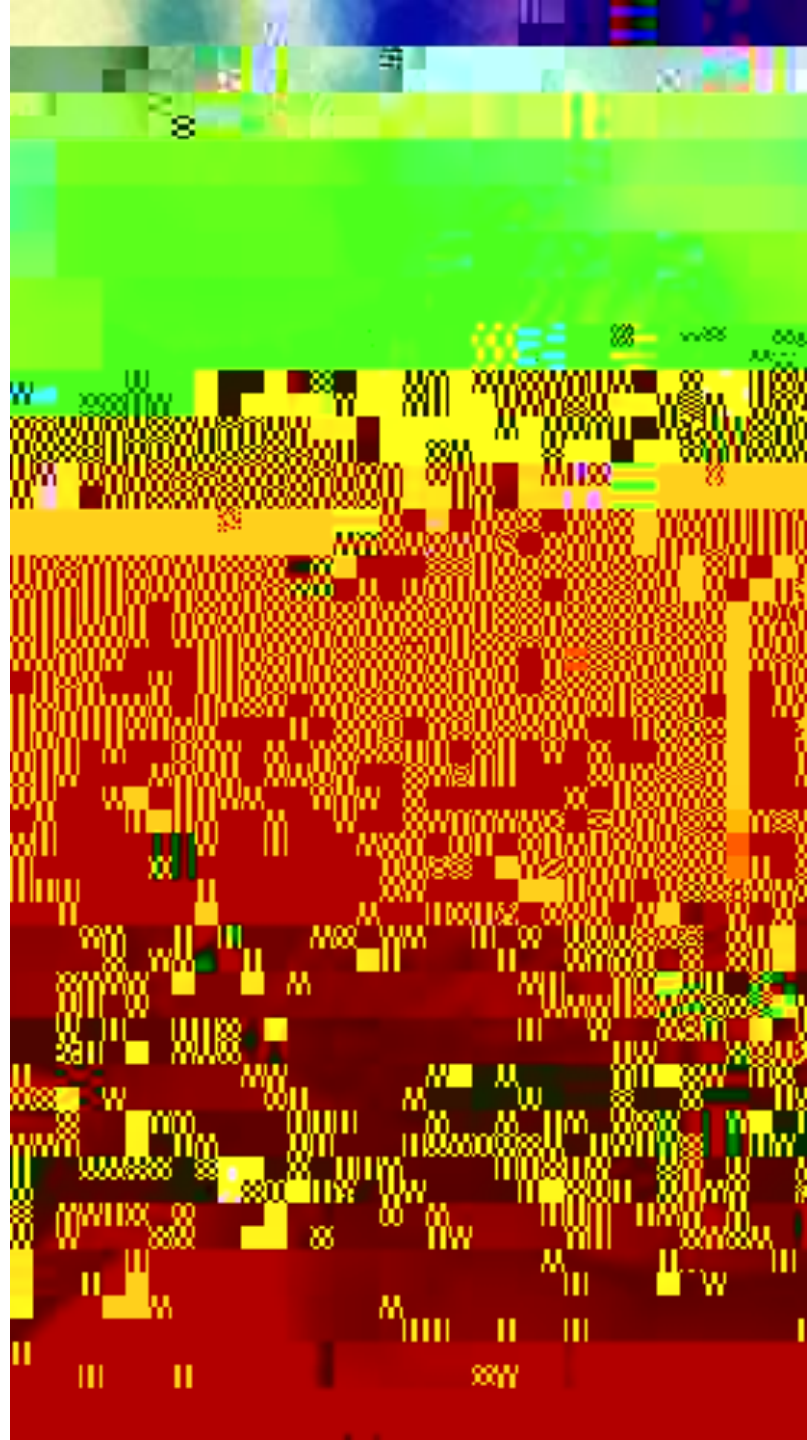


Rationale for acquiring CoreOptics



Role of optics in the IP network ~~E~~ in the past





40G/100G Industry Standards

§ **IEEE 802.3ba**: 40Gb/s and 100Gb/s Ethernet

Parallel ribbon fiber for 40G/100G interfaces







