


Optical logic gate (Technion)**code:** COM-1050

Future digital communication systems are expected to be faster and capable of transferring larger amounts of data. As current electronically-based systems will not be able to handle these demands, alternative solutions are required. Optical networking is expected to provide faster throughput rates and wider bandwidth, but it requires extremely fast switches, which must operate in the pico-second range. Our optical gate opens the door to a fully-integrated, all optical communications network.

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