

# **The Next Wave of Photonic Integration for Optical Networks**

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***Abstract.** Photonic or optical integration is firmly established as a key technology that has enabled optical networks that underpin global and local communication networks. Key components/circuits include modulators, wavelengths mux/demux, line conditioning devices and ROADMs. Ubiquitous video is ramping bandwidth needs that will need higher per channel bit rates that require new modulation formats. Further in the future, optical packet switching and WDM access networks appear to offer potential solutions to growing capacity needs that are extending to the home. All offer important opportunities and challenges for the next wave of photonic integration applications.*

