

EpiPhotonics

we deliver the fastest and most power-efficient photonics available in today's industry

September, 2021

EpiPhotonics pioneers the design and manufacture of WSS* and PLZT photonic components and subsystems for advanced optical applications. EpiPhotonics' unique and proprietary epitaxial PLZT waveguide technology based on 25 years of R&D features radical performance gains compared to traditional technologies in terms of speed, power consumption, integration, dimensions, and robustness. (*supported by Ministry of Internal Affairs and Communications (JPMI00316))



**Tomorrow's
technology
for advanced optical
communications**

Photonics subsystems designed and manufactured with LCOS-based WSS and PLZT waveguide technology will revolutionize tomorrow's markets, such as the telecommunications and data communications. EpiPhotonics' products enable systems manufacturers to generate more revenues by delivering better products to their end-users. Moreover, the technological advances of EpiPhotonics enable its customers to anticipate the mass-market photonics of tomorrow.

**Leader in
waveguide
technology**

LCOS-based WSS achieves 50GHz or 100GHz channel spacing and up to 96 wavelength switching at software definable reconfigurable ports with minimal power consumption. PLZT is the attractive electro-optic material technology for the integration of high-channel count and/or various photonic functions into a monolithic chip, with ultra high-speed control and low-power dissipation.

**Optimized
performance**

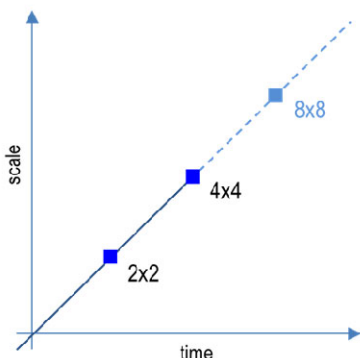
High-speed
Low-Power consumption
High reliability & environmental stability

Products

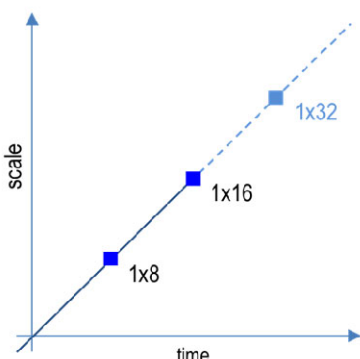
WSS (Wavelength Selective Switch)
1x9 ports or 5x5 ports operation (under development)
Nano-second speed optical path switch
1x2 ports, 1x4 ports, 1x8 ports, 1x16 ports
2x2 ports, 4x4 ports, 8x8 ports (under development)

Customization

EpiPhotonics supplies products tailored to customers' requirements.



NxN high-speed optical switch product roadmap



1xN high-speed optical switch product roadmap

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