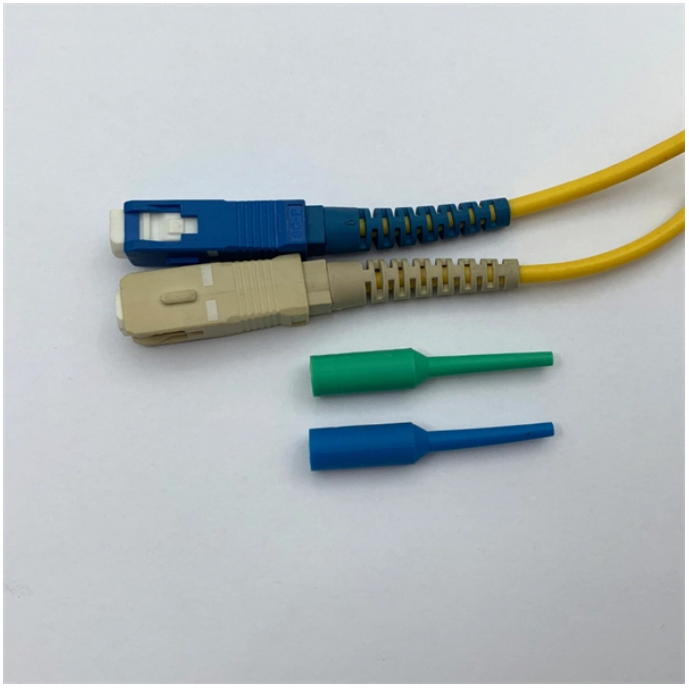
Indzawo Optic Connect

Bidirectional Modulation Optical Modulator





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Bidirectional Modulation Optical Modulator

	In this letter, we have proposed a method for measuring the chromatic dispersion and the absolute time delay of optical fiber by using bidirectional modulation of Mach–Zehnder modulator...
	We explore the integration of smart pixel light modulators (SPLMs) into bidirectional optical neural networks (BONNs), highlighting their advantages over traditional spatial light modulators (SLMs).
	Abstract: We proposed and demonstrated a novel optical modulator based on a bidirectional grating coupler designed for perfectly vertical fiber coupling. The grating functions as the fiber...
	In this paper, we propose a bidirectional transmission system with an OSSB modulation scheme of downlink transmission by employing the SBS effect of the fiber and an injection-locked distributed …
	We explore the integration of smart pixel light modulators (SPLMs) into bidirectional optical neural networks (BONNs), highlighting their advantages over …

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It provides a detailed assessment of each technique''s working principles, advantages and limitations, and potential applications in cutting-edge photonics. Additionally, it covers relevant topics ...



We have proposed a simple method for measuring the chromatic dispersion and the time delay of optical fiber by using bidirectional modulation of a Mach-Zehnder modulator.



We report, for the first time, experimental results on the simultaneous operation of two independent optical channels in a bidirectional configuration in a single electrooptical modulator.



We present a simple way to enhance bidirectional broadband modulation in a traveling wave Mach–Zehnder electro-optic modulator (EOM) by ...



We report, for the first time, experimental results on the simultaneous operation of two independent optical channels in a bidirectional configuration in a single electrooptical modulator.



We present a detailed study of the design and performance of the bidirectional optical single-sideband modulator (BOSSM). This is a new scheme to achieve optical single-sideband modulation (OSSB) ...

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	We present a simple way to enhance bidirectional broadband modulation in a traveling wave Mach–Zehnder electro-optic modulator (EOM) by removing matched impedance and effecting ...

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