

Digital Optical Transmitter Tuning Characteristics

The transmitter is able to produce phase-controlled optical pulses at GHz speeds with a tunable wavelength range of centered at 1550 nm. With this transmitter, we perform proof-of-principle ...

Optical fibers serve as the foundation of an optical transmission system because they transport optical signals from source to destination. The combination of low-loss and large bandwidth allows high ...

The present work aims to jointly optimize transmitter GCS and LPS and receiver EQ with the driving configuration of the DML (Ibias, Ipp), thus tailoring E2E learning to the specific ...

This article aims to thoroughly examine the limitations of traditional transceivers and present our latest research findings on transmitters utilising optical digital-to-analog converters (oDAC).

In this work, we demonstrate the capability of implementing high-speed optical transmitters meeting the needs of data centers for 100G=400GEthernet in the same platform, with ultra-low power ...

Conversely, digital post-distortion provides operation with larger eye-openings, and therefore, provides an SNR increase of at least 0.5 dB. Furthermore, we find that increasing the roll-off factor increases ...

In summary, we have demonstrated a fast and precise 100-channel wavelength-tunable transmitter, which is suitable for optical packet switching. The wavelength switching performance has been ...

In this letter, we propose a new robust pre-distortion method to mitigate the undesirable linear and non-linear distortions of all electrical and optical transmitter components simultaneously. A ...

ectrical signals to optical signals. For digital transmitters, the optical output must conform to specifications such as optical power, extinction ratio, rise and fall time, and jitter. In analog ...

An optical transmitter is defined as a device that generates an optical modulated signal using a laser, either through direct modulation or an external modulator, which is essential for long-haul optical ...

In this letter, we propose a new robust pre-distortion method to mitigate the undesirable linear and non-linear distortions of all electrical and optical transmitter components simultaneously....

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