Abstracts

Experimental 9 GBit/S Transmitter and Receiver for Optical Transmission Systems

G. Hanke. "Experimental 9 GBit/S Transmitter and Receiver for Optical Transmission Systems." 1991 MTT-S International Microwave Symposium Digest 91.1 (1991 Vol. I [MWSYM]): 153-156.

In the trunk network of Deutsche Bundespost Telekom (DBP) optical transmission systems working at 2.4 Gbit/s have been implemented last year. This bitrate could be processed with commercial monolithic integrated GaAs-circuits. For higher bitrates, such as 4.5 Gbit/s or even 9 Gbit/s, monohthic integrated Si-ICs must be applied at the time being. In this paper it is shown that with only a few different types of special Si-ICs all the components for transmission systems working at bitrates of up to 10 Gbit/s can be built up using a sophisticated circuitry.

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