

# Abstracts

## One Gigabit/Second Signal Processing and Data Handling

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J.S. Gray. "One Gigabit/Second Signal Processing and Data Handling." 1972 G-MTT International Microwave Symposium Digest of Technical Papers 72.1 (1972 [MWSYM]): 192-194.

An overview of hardware developments allowing digital communication and data handling at a 1-Gb/s rate is presented. The signal processing hardware includes a 1-Gb/s QPSK modem, 500-Mb/s bit synchronizer - signal conditioners, and a test system. The data handling equipment includes developments for multiplexing, demultiplexing, recording, and analog-to-digital conversion. The signal plus noise performance of the modem and the bit synchronizer - signal conditioner is discussed.

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