

Wideband analog to digital conversion and low rate baseband processing (Technion)**code:** COM-1122

Radio frequency (RF) technology enables the modulation of narrowband signals through high carrier frequencies. Conventional analog to digital converters (ADC's) have inherent bandwidth and maximal frequency limitations. Our novel technology enables the design of an ADC device for input in the wideband regime of over 20 GHz and for generation of a baseband sequence which corresponds to any specific region of the spectrum without the need for prior reconstruction.

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