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Abstract
In this paper, we have developed an IEEE802.11 multimode WLAN baseband processor. Our proposed architecture using the FFT/IFFT and the adaptive equalization can be used in the baseband processor of 802.11 and 802.11a/b/g systems without additional hardware. The operations of the FFT/IFFT and the adaptive equalization are processed in the array of same processor elements. Each processor element itself can operate all operation modes. The proposed architecture is implemented by UMC 0.18um CMOS technology and its performance is showed as the chip area (gate counts).
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