Abstracts

The Advent of the Signal Microprocessor

The signal Microprocessor [SMP] is a software controlled processor for analog RF and microwave signals which makes the implementation of new signal based systems practical much like the digital microprocessor did for data-based systems. The SMP is programmed using digital commands and processes analog RF and microwave signals without analog to digital conversion. The SMP, enabled by the ACT technology, is less complex and uses less power because it has the processing power of a multimillion transistor ASIC, but is implemented with less than 3000 transistors. The SMP is operated by a natural language software system.

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