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Title: Factors for selecting DSP for wireless base station

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Technologies and techniques, such as direct intermediate-frequency (IF) sampling, direct digital down conversion, digital signal processing, and re-configurable logic, enable more flexible base station ...

Implementation technologies available to base station architects, Application Specific Integrated Circuits (ASICs), Field Programmable Gate Arrays (FPGAs) and Digital Signal Processors (DSPs), each ...

The TMS320TCI6482 DSP offers the best combination of power efficiency and high performance for soft digital baseband processing in wireless infrastructure equipment.

The hybrid FPGA/DSP-based platform provides an effective design method for wireless base stations. The key to product success is to make a reasonable allocation between FPGA and ...

Advancements in DSP technologies over the years have allowed system designers to increase performance by simply adding more DSPs to base station circuit boards.

This paper introduces a new DSP architecture optimized for baseband applications, especially applications with heavy workload of complex filtering, FFT and MIMO matrix operations such as LTE.

In this article, we target the audience of Wireless Communications Engineers working within Telecommunications Carriers, and we discuss comprehensive strategies for base station design that ...

We show that a custom VLSI architecture for baseband signal processing in a wireless base-station receiver can be extremely efficient in meeting real-time requirements of the receiver.

Offloading the Turbo decoding function from the TCI6487 DSP core can free up more processing power for MAC and PHY processing, or the effective processing margin can be used to handle more users ...

Factors for selecting DSP for wireless base station

This paper provides an overview of configurable DSP technology and shows how it can be used in wireless applications. Section II describes the different types of DSPs and how they are used in ...

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