NEW PC-BASED CONTROL FOR THE RF SYSTEM AT INFN-LNS

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The block diagram of the DDS generator.

The core of the DDS generator is based on the direct digital synthesizer (DDS) approach. The DDS is a digital-to-analog converter (DAC) that generates a continuous waveform with selectable frequency, phase, and amplitude. The DDS generator is controlled by a microcontroller or a computer through a serial interface (e.g., RS-232, RS-422, or Ethernet).

The DDS generator resolution is ±0.02%, and the phase and frequency resolution are ±0.0001° and ±1 Hz, respectively. The DDS generator can generate sine, cosine, triangle, square, and sawtooth waveforms.

The DDS generator has a frequency range of 650 kHz to 1.8 GHz, and a phase shift resolution of 0.01°. The DDS generator can be used in various applications such as radar, communication, and RF test equipment.

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