0.13μm CMOS Logic / Mixed Signal

**INTRODUCTION**
Qualifed for volume production in 2004, Dongbu HiTek's 0.13μm CMOS process technology is well suited for implementing a broad range of mixed-signal SoC solutions with up to eight layers of copper.

**KEY FEATURES OF TECHNOLOGIES**
- **Generic/Mixed Signal Process**: 1.2V for Core, 2.5V or 3.3V for I/O
- **Low Power Process**: 1.5V for Core, 2.5V or 3.3V for I/O
- **Up to 1Poly 8Metal**
- **Various Mixed Signal components are available**
  - Deep Nwell, MIM Capacitor and High-Sheet Poly Resistor
  - Vertical Bipolar devices (PNP/NPN), MOS type Varactor
  - Memory: 6T SRAM (1.487um2)
- **Fully Characterized PDK, Statistical Models and Industry Standard CAD Tools Supported**

**PDK TOOL SUPPORT**
The Process Design Kit (PDK) contains technology files that link Dongbu HiTek's specific foundry manufacturing processes with a variety of Design Automation tools. The PDK contains schematic, simulation, layout, and verification structures needed to support the complete design flow. Below is an example of a Cadence PDK including common tools from other vendors used in a Cadence-based design flow.
Armed with cutting-edge wafer processing technologies that it has successfully developed and qualified for high volume production, Dongbu HiTek is dedicated to serving fabless companies, integrated device manufacturers (IDMs) and systems companies worldwide. Focused on adding high value to each customer’s chip design, Dongbu HiTek consistently delivers strong technical support and ample manufacturing capacity as it continually expands its portfolio of processing options. Dongbu HiTek’s outstanding analog processing at both the 0.18um and 0.35um nodes is available to implement a broad range of mixed-signal and power functions. Through close working relationships with its strategic partners, Dongbu HiTek offers a broad range of services including design support and access to intellectual property as well as backend assembly, packaging and testing. These well-established partnerships augment its world-class wafer manufacturing capabilities, and have placed industry leaders’ trust in Dongbu HiTek. Committed to growth and customer satisfaction, Dongbu HiTek has the flexibility to respond to different wafer processing requirements with its first-rate quality management system.