

## IV. IT SoC

IT SoC is a key component of IT devices. It is composed of memory that stores information, one or more processing units that control and process digital and analog signals, and related softwares. Korea set a goal to become a leading IT SoC country by 2007.

*Korea aims to become a leading IT SoC country, and supports the development of core SoC technologies.*

To achieve this, the government identified core SoC technologies as a new growth engine sector and supported such development. As a result, it succeeded in developing multimedia SoCs for cellular phones in 2004. It also produced 123 high-quality SoC designers who completed a specialty certificate program in the IT SoC Academy, which opened in February 2004. The government has also supported the building of a common infrastructure for SoC design companies. As a result, two mid-sized companies with more than KRW 100 billion emerged. The IT SoC industry is showing considerable growth every year.

In 2005, the government will support SoC design companies by expanding Intellectual Property (IP) databases and production of prototypes. Branch campuses of the IT SoC will open across the nation in an attempt to produce talented SoC designers nationwide. The government will develop and demonstrate low-power core chips for mobile communications and hold IT SoC exhibitions to introduce new products and promote cooperation between system developers at home and abroad.

## V. Next-generation PC

Next-generation PCs are central in the ubiquitous computing environment. Not only is it user-centered and easy to use, but also meets the requests of users at any time and place with its wearable and portable computing functions. Korea will strive for the goal to “become one of the top three advanced countries in the world, to lead the ubiquitous era for next-generation PCs”. Consistent with this goal, it is moving on to the age of wearable, edible, and embedded computing.

Korea will secure five-sense information User Interface(UI), bio-integrated