NXPs unique FD-SOI design enables:
- Large dynamic gate and body biasing voltage (Vbb) range
- Domain and subsystem optimization with custom standard cell library with mixed voltages
- Low quiescent current (Iq) bias generators
- Enhanced ADC performance with unique FD-SOI attributes
- Fail Safe I/O for simplified low power system design
“We are excited that NXP is the first to bring the benefits of FD-SOI (28FDS) technology to the general purpose market,” said Ryan Lee, VP of the Foundry Marketing Team at Samsung Electronics. “28FDS technology will satisfy a growing and critical need for ultra low power designs that require power-performance at very low voltages. We plan to evolve 28FDS technology to a differentiated low-power single platform by implementing RF and embedded Non-Volatile Memory (eNVM) solution for our customers’ success.”

NXP’s processor design enables robust low power graphics for the IoT and Wearable markets through two graphic processor units (GPU) from Vivante—the GC7000 NanoUltra 3D GPU with a low power single shader, and the GC320 Composition Processing Core (CPC) for 2D graphics. The 3D GPU plays a critical role in enabling rich 3D based user interfaces, while the CPC can accelerate both rich 3D and simpler 2D user interfaces. Processors based on the combination of the two GPUs enable efficient display systems which offload and significantly reduce system resources, in turn providing rich user interfaces at low power levels to extend the battery life of devices.

“Our 3D GPU is a result of a joint collaboration between Vivante and NXP to deliver industry-leading 3D capabilities with the lowest power consumption,” said Wei-Jin Dai CEO at Vivante Corporation and Chief Strategy Officer and GM of IP Division at Verisilicon. “The power savings from using the right GPU in an ultra low power processor is one of the major attributes and advantages of the architecture.”

Availability
The i.MX 7ULP applications processor family is currently sampling to select customers. Broader availability of pre-production samples is scheduled for Q3 2017.

See NXP Technologies in Action at Embedded World 2017 in Nuremberg, Germany
Visit NXP during Embedded World in Hall 4A – 220 at the Exhibition Centre Nuremberg. See the new i.MX 7ULP applications processor in action and interact with other innovative demonstrations for embedded solutions enabling the IoT from smart cars to smart industry.

For more information about NXP news at Embedded World, please visit www.nxp.com/EW17/mediacenter.

About NXP Semiconductors
NXP Semiconductors N.V. (NASDAQ: NXPI) enables secure connections and infrastructure for a smarter world, advancing solutions that make lives easier, better and safer. As the world leader in secure connectivity solutions for embedded applications, NXP is driving innovation in the secure connected vehicle, end-to-end security & privacy and smart connected solutions markets. Built on more than 60 years of combined experience and expertise, the company has 31,000 employees in more than 33 countries and posted revenue of $9.5 billion in 2016. Find out more at www.nxp.com.