

Plessey Semiconductors announces planned release of innovative products for the defence, space, communications and automotive markets.

1st March 2010.

Plessey Semiconductors announced today the planned release of a number of innovative semiconductor products including a range of amplifiers, demodulators, synthesisers and high-speed pre-scalers. These products have been designed primarily for the defence and space markets, but are also used in the general communications, automotive and industrial control market segments. The types of end products that will use these components include television systems, fibre optic communications, CCTV and data communication systems.

As announced in January 2010, Plessey Semiconductors operates from its semiconductor manufacturing facility in Roborough, Plymouth and a technology and design centre in Swindon, Wiltshire. The bipolar process technologies that were originally developed in Swindon are being transferred to the Plymouth facility. The combination of the high performance bipolar process technologies and the 0.35-micron CMOS process provide Plessey Semiconductors with a unique advantage for its planned full range of semiconductor products.

Dr. Paul James, Commercial Director for Plessey Semiconductors said, "The first Plessey products designed on the bipolar processes are now coming out of the fab with very positive results. We are ahead of schedule on the first product releases and expect to have prototypes available in Q3 of this year. This is a very exciting time for the company as the realisation of our plan to transition from a foundry to a products company is starting to become a reality."

"We are leveraging our extensive in-house semiconductor design experience together with our expertise in process technology development and optimisation", said Dr. Keith Strickland, Technology Director. He continued, "These first product releases will lead us to continue to create innovative products for defence, medical, aerospace and aeronautical applications, such as sensors, low and ultra-low power devices, imaging products, and devices for power and battery management. The 0.35 micron CMOS process with its very low dark current is ideal for industrial imaging products."

"With our recent advances in process technology and our design knowledge we will be able to extend and broaden these product offerings. We will take advantage of our high voltage silicon-on-insulator processes coupled with high precision passive components to create exciting new high precision products for the industrial instrumentation market. Our silicon-on-insulator processes offer extended high temperature operation for radiation tolerant products for space and defence as well as the automotive and industrial markets."

Prototypes for the following products will be available in Q3 of 2010.

- Current and voltage feedback high slew rate operational amplifiers (PS13000 range)
- High-speed pre-scalers, operating at up to 13GHz, (PS15000 range)
- Demodulators (PS20100 range)
- Synthesisers, (PS20500 range)
- Direct digital synthesisers (1.4GHz PS20614 and 1.6GHz PS20616)

For further product information and early release flyers, please contact sales@plesseysemi.com

About Plessey Semiconductors Limited

Plessey Semiconductors are world experts in the development and manufacture of CMOS and bipolar analog mixed signal processes and products for the electronics, telecommunications, defence, medical, aerospace and automotive markets. Plessey Semiconductors offers its customers CMOS, bipolar, complementary bipolar and BiCMOS process technologies on both silicon and silicon-on-insulator substrates. The Plessey Semiconductors products have been specifically designed for RF and sensing applications. The suite of state-of-the-art high precision, high voltage products are available in high temperature and radiation tolerant options.

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