



PRESS RELEASE

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Anvo-Systems presents 1 Mb serial SPI nvSRAM with 66 MHz

Dresden, Germany, May 2015 – Anvo-Systems Dresden, the specialist for non-volatile memory products, presents the ANV32AA1W serial non-volatile SRAM (nvSRAM) with a high storage capacity of 1 Mb. The nvSRAM has a silicon–oxide–nitride–oxide–silicon (SONOS) flash storage element included with each memory cell. In the event of an unforeseeable operating voltage drop below a defined value, the robust, cost-optimized SONOS technology enables non-volatile storage of all data in less than 15 ms. The non-volatile memory device also provides typical advantages of static random access memories (SRAMs), such as fast access times and unlimited read & write endurance.

The ANV32AA1W serial nvSRAM with double memory architecture is organized as 128 k words of 8 bits each and supports SPI Modes 0 and 3. The high clock rate of 66 MHz is an outstanding feature.

An integrated Power Down functionality (hibernate mode) with a standby current I_{hib} of less than 1 μ A ensures low power consumption of the system. The time to recover from Power Down mode is typically only 60 μ s. Unique safety features, such as checksum protected memory accesses (Secure READ and Secure WRITE) as well as Time Monitoring, ensure a high degree of reliability of the nvSRAM.

The ANV32AA1W can be operated with 2.7 V to 3.6 V and comes in 8-pin DFN and 16-pin 169 mil TSSOP packages for commercial and industrial (-40°C to +85°C) temperature ranges.

Anvo-Systems Dresden

Anvo-Systems Dresden GmbH located in Dresden was founded 2009 as fabless semiconductor company and provides non-volatile standard products, IP and services to the market. Core competencies include nvSRAM, FLASH, SRAM, and DRAM technologies. The fast, highly reliable, system solutions are designed for industrial, computational, medical, energy, automotive and communication applications.

Anvo-Systems Dresden has signed strategic cooperation agreements with XFAB Semiconductor Foundries AG and Melexis N.V. The company is a member of the Semiconductor Cluster Silicon Saxony.

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