Press Release

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RC "Module" Starts the Mass Production of

NeuroMatrix® NM6403 DSP Processors

MOSCOW, Russia, June 1, 1999 - Research Center "Module", the developer and owner of patented NeuroMatrix® DSP architecture has just gained the first lot of NeuroMatrix® M6403 DSP processors manufactured at the Samsung Semiconductor fab. The microprocessor research and development project began in 1996 NeuroMatrix® unique architecture elaboration. The NeuroMatrix® combines the features of both VLIW (Very Long Instruction Word) and SIMD (Single Instruction Multiple Data) modern architectures. Designing, research and development activity of highly qualified engineers and scientists, with the use of the most modern design tools such as CADENCE and 0.5um CMOS technology resulted in 1998, when RC "Module" received the samples of first Russian NeuroMatrix® NM6403 DSP. NeuroMatrix® NM6403 is a high performance dual-core microprocessor with a DSP-oriented RISC architecture. The architecture includes two main units: 32-bit RISC Core and 64-bit VECTOR co-processor to support vector operations with elements of variable bit length. There are two identical programmable interfaces to work any memory types as well as two communication ports hardware compatible with TI DSP TMS320C4x which permit to build multi-processor systems. In compliance with EDN-Access, NM6403 may be classified as 64-bit DSP processor based on the NeuroMatrix® architecture. Its' technical specifications allow NM6403 to compete on a World market as the best DSP processor with optimal price-performance ratio. What is the result of the relatively low price indicator and very high quality, reliability and technical parameters that determine NM6403 as a next-generation-DSP. NM6403 has a broad range of applications such as a component of accelerators for PCs and workstations (neural net emulation, signal processing, image processing, acceleration of vector and matrix calculations); telecommunication equipment; embedded systems; basic block for building large super parallel computing systems. RC "Module" proposes to estimate the fruit of innovative concept and revolutionary approach in appliance of the XXI century technology, based on the results of many years military development institutions research.

NeuroMatrix® NM6403 sale from a stock in Moscow is available now!

You can find all the necessary information and technical specifications on our site: http://www.module.ru