

Press Release

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NeuroMatrix® Core Receives Gold Medal at Brussels-Eureka '99

Moscow, Russia, 22nd of November 1999 – RC "Module" received recognition recently in the worldwide intellectual property (IP) market by being awarded a Gold Medal at a leading international technology fair.

The 48th World Fair of Innovation, Research and New Technologies took place from November 10 to 17 in Brussels, Belgium. More than 900 designers from 32 countries took part in the exhibition. During the fair, an international panel of judges reviewed the work of the participants for technological merit.

Patent 2131145 from the Russian Federation, the "Neuroprocessor, a device for saturation function calculation, computing device and adder", received the Gold Medal for achievement in the field of electronic and high-tech devices. This invention is the base architecture on which RC's high-performance NeuroMatrix® NM6403x DSP and NeuroMatrix® Core family is based.

NMC is a soft core rendition of a high-performance DSP with VLIW/SIMD architecture. The core includes a 32-bit RISC processor and a 1-64-bit vector co-processor to support vector/matrix calculations with elements of variable bit length and perform from 1 to 288 multiplication and accumulations in one processor cycle. The core can be implemented with only 80,000 equivalent gates, yet delivers more than 35 GMAC on Fujitsu's 0.25-micron process (Fujitsu CE71).

About RC "Module": Research Center (RC) "Module" is a leading Moscow-based fabless semiconductor company which designs high-end processor architectures, embedded computers and application software for DSP and artificial neural networks. RC "Module" also provides system and ASIC design services to a variety of telecommunication and computer-related OEMs manufacturers.



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