

Press-Release
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FOR IMMEDIATE RELEASE

NeuroMatrix® MC431 PCI Evaluation Board

Moscow, Russia, June 23, 2003 - Research Center Module (RC Module) announces MC431 – a low cost high-performance Single-DSP PCI Evaluation Board designed for software evaluation and system prototyping on the NM6403 DSP.

MC431 is a solution that can be used for learning about the NeuroMatrix® architecture and the Software Development Kit. It has one NM6403 DSP, 4MB SRAM, PCI host interface and two communication ports.

NeuroMatrix® NM6403 DSP is a high performance microprocessor with a combination of VLIW and SIMD architectures based on the NeuroMatrix® Core (NMC), targeting video-image processing, radar and neural-network applications. It provides scalable performance, a programmable operand width of 1 to 64 bits and an operation as fast as 40 MHz. This flexibility allows designers to trade precision for performance to suit their applications. The NM6403 processor includes a 32/64-bit RISC processor and a 1- to 64-bit Vector coprocessor that supports vector operations with elements of variable bit lengths (**US patent # 6,539,368**). Two identical programmable interfaces work with external memory and two communication ports are hardware-compatible with TI's TMS320C4x, allowing to build multiprocessor systems.

The MC431 evaluation board supplied with the NeuroMatrix® Software Development Kit (SDK) is a complete chain of software design and debugging tools. The NeuroMatrix SDK for PCs includes an ANSI X3J16/95-0029 preliminary-standard compatible C++ compiler, an assembler, an instruction-level simulator, a cycle-accurate simulator, a linker, a source-level debugger, a load/exchange library and a set of application-specific vector-matrix libraries. The vector-matrix library simplifies C-language programming for FFT, DCT, Sobel and Hadamard Transforms.

The board will be available in the third quarter of 2003 from RC Module's stock for **\$500**.

The Research Center Module (www.module.ru) is a leading Moscow-based fabless semiconductor company which designs high-end RISC/DSP processor architectures, embedded computers and application software for video image processing, DSP and artificial neural networks. RC Module also provides system and ASIC/SIP design services to a variety of telecommunication and computer-related OEM manufactures.

The RC Module's NeuroMatrix® product family includes:

- NMC core
- BM1 PCI/CompactPCI Video Image Processing (VIP) Development Set
- TM-PCI-4 "TrafficMonitor" System for Desktop PC



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