

Press Release

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FOR IMMEDIATE RELEASE

UNIMO Technology Has Licensed RC Module's NeuroMatrix® "TrafficMonitor" System

Moscow, Russia May 7th, 2001 — Research Center "Module", Moscow, Russia and UNIMO Technology Co., Ltd., Seoul, Republic of Korea announced today that they have signed a license agreement under the terms of which RC Module licenses its NeuroMatrix® NM4 Multi-DSP CompactPCI Board and MC405 Video-grabber module to UNIMO for integration with its high resolution CCD Cameras and wireless telecommunication technologies to provide high-performance smart terminal for Intelligent Transport Systems. The term, Intelligent Transport Systems (ITS), embraces a wide range of transport innovations, mostly derived from existing information and communications technologies. In its various forms, ITS has the potential to deliver significant benefits to the transportation community and further benefit the economies of the world in terms of improved operational efficiencies and reliability, reduced infrastructure costs, reduced environmental impact and improved user safety. ITS covers all forms of transport and a multitude of applications.

The first UNIMO products equipped with the NM4 board and real-time embedded software will be the "TrafficMonitor" system used for road monitoring and measurement of traffic characteristics.

"TrafficMonitor" is the first commercially available system based on 1-64-bit VLIW/SIMD NeuroMatrix® NM6403 DSP and associated video image processing software. It is designed for collecting and processing a variety of traffic parameters on motorways and highways. It is able to monitor up to six lanes simultaneously, providing measurement of traffic volume, speed, headway, and occupancy for each lane. It is also capable of classifying vehicles into five classes: motorcycles, passenger cars, small trucks/minivans, buses and trucks over 12 meters. The system provides real time video processing, including: detection of vehicles in the camera's Field Of View (FOV), anti-shadow and anti-headlight reflection filters, sophisticated tracking and much more. It utilizes artificial neural networks for shape-based recognition of vehicle type. Advanced traffic detectors are the major component of the intelligent traffic management systems. They are used in a wide range of traffic management applications, like traffic flow estimations for transport networks planning, handling of signalized intersections, and estimation of road pavement quality and deterioration.

About UNIMO Technology (www.unimo.co.kr): Over the last quarter century UNIMO Technology CO., LTD. has steadily grown into a major corporation in the field of advanced wireless telecommunications and has obtained a current domestic market share of over 50 percent in Korea. It is committed to continuing investment in R&D while fostering solid management. UNIMO has also started to collaborate with Com Net Ericsson, Thomson, and other major manufacturers in preparation for the imminent emergence of a fiercely competitive global market. UNIMO has pursued advanced product development of high resolution CCD Cameras, Digital CCD Cameras, TRS Systems - such as Digital TRS, 5KHz channel radio communication system, wireless data, and IMT-2000. UNIMO brings the promise of becoming a world leader in advanced integrated information and telecommunications through its continued investment in R&D, managerial revolution, and client-oriented corporate culture.

About RC "Module"(www.module.ru): Joint-Stock Company Research Center "Module" is a leading Moscow-based fabless semiconductor company which designs high-end RISC/DSP processor cores, embedded computers and application software for real-time video image processing, digital signal processing and artificial neural networks. RC "Module" also provides system and ASIC/SIP design services to a variety of telecommunication and embedded computer-related OEMs manufacturers.



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