



Memorysolution: Infinity, the turbo-charged DRAM is there!

The patented and worldwide unique Turbo Chip Scale Package (TCSP) not only makes OCI's Infinity RAM cooler; in addition, the reduced circuit length effectively reduces interferences such as crosstalk or switching noise.

Breisach, Germany, March 07, 2007 – Memorysolution announces immediate availability of Infinity DDR2 memory manufactured by OCI. The new DRAM is produced in a unique and patented new procedure. Optically very appealing and fully RoHS compliant, in the D-A-CH region (Germany, Austria, Switzerland) the memory modules are available exclusively through Memorysolution.

Optimum Care Internationally Tech. Inc. (OCI) has developed this patented packaging technology to overcome the physical limitations of currently applied chip package methods like TSOP (Thin Small Outline package) or BGA (Ball Grid Array) in memory chip production. With new CPU generations like Intel's Core 2 Duo or AMD AM2, DDR2 memory will become mainstream. These processor types no longer support DDR memory, soon making DDR2 the prevailing technology. Clock speeds of DDR2 modules need to keep pace with ever-rising CPU speeds. The permanent challenge for DRAM manufacturers is not only to cope with but also to overcome certain physical limitations. To achieve optimum performance of DRAM modules sporting best-of-breed electrical characteristics as well as an advanced thermal design, the application of more and more efficient materials and innovative technologies simply has become a must for any manufacturer.

Certified to ISO-14000 and ISO-9001 already since the year 2005, OCI focuses their R&D efforts and core competences in particular in the area of in-house package design and PCB design straight on the improvement of the parameters crucial to achieve these goals in DRAM production. That way it was possible to design DDR2 memory modules with an optimal performance and a significantly reduced thermal resistance. In the result, the worldwide unique Turbo Chip Scale Package (TCSP) protected by more than 200 patents has significant advantages over current DRAM production procedures.

Shorter circuit lengths reduce undesirable crosstalk as well as switching noise of the modules and provide for an improved signal quality also at high memory clock speeds. Opposed to epoxy resins known for their bad heat conduction usually applied in chip packaging, TCSP allows the bared chip to emit heat directly outward to the environment. Moreover, substances such as thermal adhesive and metal protective caps additionally protecting the die mechanically are installed on the modules when packaging the dies, thus adding to the substantially better heat dissipation of TCSP packed modules.

These combined measures easily allow heat from the memory modules to ventilate to the surrounding air inside the system, from where this loss heat can be conducted outside the PC case by common system ventilation measures in a very effective manner, a not unimportant fact when it comes to high memory clock speeds.

As all DDR2 modules, Infinity DRAM sports the general advantage of having a lower voltage (1.8V) than that of DDR (2.5V). The lower level of power consumption adds to the effect of a better heat dissipation, but also reduces AC power consumption in working environments with high CPU populations as for example in server farms. Besides, stringent disk-burning tests have shown that system failures due to overheating of the DRAM are significantly reduced when using TCSP packaged memory modules. That way TCSP improves the overall system availability and protects your investments in IT.

OCI Infinity modules have already been certified by leading appliance and mainboard manufacturers (e.g., for the application in servers made by Tyan) and by Advanced Validation Labs, Inc (AVL) which itself are officially approved by Intel. As of now, the modules are available as DDR2-533 up to DDR2-800 unbuffered DIMM with SPD timings of 5-5-5-15 and in capacities up to 1 GB. Higher capacities and clock speeds are scheduled to follow later this year. Of course, OCI also manufactures all standard products in TSOP and BGA technology. Prices are available upon request. Contact person for distribution related questions in the enterprise is Ralf Thoma.

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press release

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About Memorysolution

Since its foundation back in 1997, Memorysolution GmbH has become the experienced One-Stop-Shopping partner of choice and leading specialist for proprietary memory expansions, Qimonda und AENEON™ A-brand modules as well as current Flash memory components in Germany and has established a top position among memory module specialists within Europe. The product portfolio is completed by the the Original PenDrive®, for which Memorysolution GmbH is the official EMEA distributor since August 2006, and the new MaxFlash product line covering the full range of flash based USB drives, memory cards of all formats, personal entertainment products and related periphery. Memorysolution caters every market segment from small businesses up to the industries' broadliners. Next logical milestone on the way to a globally operating enterprise was the foundation the US subsidiary PRIME Memorysolution Inc. in Reno/NV in spring 2004. As of July 01, 2006 the former Managing Director and co-founder Gerald Diercks leads Memorysolution GmbH as sole Managing Director. Find more information about Memorysolution at <http://www.memorysolution.com>

About optimum Care Internationally Tech., Inc (OCI)

Optimum Care International Tech. Inc. (OCI) was founded in 1994. It specializes in R&D, production and sale of memory-related products, including DRAM modules, and memory checkers. The management concept of OCI is to "create competitiveness for customers". In an increasingly competitive market for computer information industry, OCI distinguished itself from its peers by developing a unique business operation. Having withstood the hardships and tests during its startup period, OCI has become a over-the-counter (OTC) trading company and its business channels have extended across Five Continents.

OCI is involved in IC testing, IC testing software R&D, PCB layout, ASIC design, memory production and development, and final product testing. Over the years, with the hard work of its staff and R&D team, OCI has provided high quality products to clients and has fulfilled their demands. OCI has been diligent in the research on and development of DRAM compatibility, PCB compatibility, and DRAM related applications. OCI has over 150 combined patents that patent applications and its products have provided the best competitive core for OCI and its clients.

Looking to the future, OCI will uphold the ideals of "firm resolution and quality; innovation and sharing" in order to further expand in the memory-related industry. OCI hopes to use its many years of experience in R&D, design and production, as well as its business channels to continue to provide the best service and added value to OCI's clients and achieve overall success. Please find more information at <http://www.oci.com.tw>

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