



Add-on Selections for DRAM Modules: Reliable Protections for Harsh Environments

DRAM modules are becoming more prevalent in challenging environments, undergoing high temperatures, vibrations, contaminants and chemicals that commonly occur in automation, aerospace, marine and other industry in harsh environments. In these cases, there is a growing demand for increased protection, or it can eventually cause severe damage to electronic equipment and moreover lead to corrosion or short-circuiting.

Innodisk is a leading global provider of industrial memory solutions, we provide high quality DRAM modules and additionally offer reliable add-on selections for our clients, including Conformal Coating, Side Fill Technology, Heat Spreader and Rugged Clip, ensuring the stability and performance of clients' applications.

Conformal Coating

Conformal coating is a well-tested method to protect DRAM modules from corrosion, short-circuiting, wear and other damage. By applying a thin, isolating layer of acrylics and silicone over the module, it can help protect against contaminants and increase product lifespan. Our conformal coating uses top-of-the-line materials supplied by HumiSeal and meets IPC-A-610 inspection standard with reliability and quality.

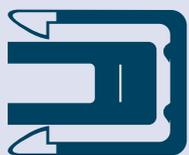
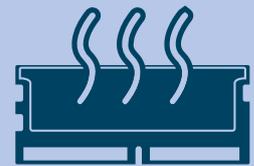


Side Fill Technology

Side fill technology can help increase PCB to BGA connection robustness, improve reliability and extend product life during strong tremors or stringent thermal cycling. By applying resin to 3 sides of the DRAM IC, it reinforces the BGA and the PCB joint. Tension tests show that with side fill applied, modules tolerate up to 2 times the force before finally coming loose.

Heat Spreader

Heat spreader is designed to transfer the heat as the BGA IC is getting smaller and getting easier on heat generation. With the excellent thermal radiation and heat conduction, heat spreader allows DRAM modules to work within a proper temperature, help to passively disperse heat by cooling the module by 5 percent. We have two material options of aluminum and carbon nanotube that can both enhance faster heat dissipation with efficiency.



Rugged Clip

Rugged clip is a highly reliable design that can be used to prevent the risk of DRAM modules fall off from the PCB socket when undergoing shaking, sustained vibration and sudden movements. It is a flexible method to stable the memory inside the slot without changing the design of the motherboards. Our rugged clip can meet all kinds of clients' needs and has passed the vibration test of EIA 364-28 VII.



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