

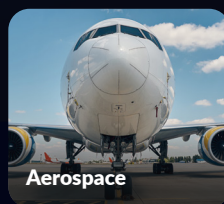
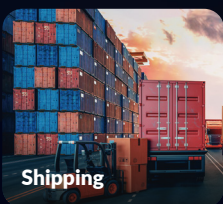
# Discover Innodisk

# DRAM PRO Series

## The Choice for Challenging Environments



### Securing Performance in Challenging Environments





As Edge Computing and AIoT continue their rapid expansion across diverse industries, High-Performance Computing generates more heat than before. This excess heat generation may result in performance issues as well as potential operation interruption. Furthermore, we see that more and more applications have their IPC's functioning in harsh environments with shock and continued vibrations that increase the risk of modules disconnecting from their slots, which is another common industry challenge.

In order to address the challenges, Innodisk announces the DRAM PRO Series with reliability and performance to help in those harsh environments and enhance value for any unique applications.

**innodisk**

## DRAM PRO Series: Comprehensive Approach

 Overcoming Thermal Challenges	 Resilience Against Vibration	
Ultra Temperature DRAM Module	XR-DIMM	
DDR5 Long DIMM Heat Spreader	Rugged DIMM	Rugged Clips

### Overcoming Thermal Challenges
















Innodisk's Ultra Temperature DRAM Modules offer robust performance in extreme conditions. This module ensures long-term stability with an extensive operating temperature range of -40 to 125°C for DDR4 and -40 to 105°C for DDR5. On the other hand, for systems requiring efficient heat dissipation, such as Edge Server, the DDR5 Long DIMM Heat Spreader effectively cools heat during operation.

### Proven Solutions Against Vibration Issues

Innodisk's Rugged DIMM and XR-DIMM DRAM Modules are specially crafted for extreme vibration and shock scenarios. These modules feature customized sockets and two mounting holes, ensuring a secure and stable connection to the motherboard. Also, Innodisk's Rugged Clips are another solution to the DRAM modules dislodging from the DIMM slot due to vibration. They are cost-effective and have undergone EIA 364-28 VII vibration testing, ensuring reliability while reducing maintenance costs.

### Complimentary Value-added Services

The PRO Series delivers tailored solutions for diverse applications, ensuring reliability and performance. Additionally, Innodisk reinforces DDR4 and DDR5 modules with upgraded services, including anti-sulfuration and side fill, to guarantee uninterrupted operation.

 Ultra Temperature	 DDR5 Long DIMM Heat Spreader	 Rugged DIMM	 XR-DIMM	 Rugged Clips
 -40°C ~125°C -40°C ~105°C (DDR5)	 Cools down by up to 5°C	—	—	—
—	—	 Two mounting holes	 Two mounting holes	 Enhance DIMM-socket connection
 45μm gold finger	—	 30μm gold finger	—	—
 Side Fill	—	 Side Fill	 Side Fill	—
—	Aluminum extruded design	—	—	Strong Panlite® material
—	Conductive pad full cover	—	300-pin connector	Simple installation

### Headquarter

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