

SYNJET TECHNOLOGY



OVERVIEW

SynJet fanless air moving technology provides the most reliable active cooling solution available today for chip cooling and LED solutions. The SynJet cooling module offers unmatched reliability, low audible noise, flexible form factor and low power consumption. The Nuventix SynJet is a revolutionary way to use active cooling for thermal management.

Features/Benefits:

- Unmatched Reliability
 - Testing has shown SynJet Modules have a lifespan that far exceeds that of the average LED light or CE device
 - Only one non-frictional moving part means there are no bearings, brushes or motors to wear out
 - SynJet modules are self-cleaning, offering low-net-flow, which minimizes contaminant buildup (dust) and will not entrain hair or large particles
- Low Audible Noise
 - Increased thermal efficiency leads to lower flow rates translating directly to lower acoustics emissions
 - With no bearing, brushes, or other frictional parts, the SynJet module eliminates acoustic problems associated with these interfaces
- Flexible Form Factor
 - SynJet modules allow designers to move air flow along traditional air paths in addition to multiple directions at once, around corners, between slots, in tight spacing or even in all directions at once
 - Decentralized cooling allows designers to cool heat at the source, rather than utilize heat pipes to transport and combine heat loads
 - Designers can direct airflow precisely where it is needed instead of trying to cool the entire product for a few key heat sources
 - Multiple component cooling with multiple directed nozzles from a single SynJet module
- Low Power Consumption/Efficiency
 - Up to an 50% reduction in required power compared to a fan for equivalent cooling
 - 50% improvement in thermal cooling efficiency over older fan technology at a given airflow
 - Higher thermal efficiency enables use of lower cost heat sink designs