

Innodisk Case Study

Title: ULP Mini-DIMM Benefits Media Processing

Company: A Telecommunication Company in Korea

Project: Very Low Profile (VLP) Mini-DIMM Solution



[VLP Mini-DIMM with ECC](#)

An early 2015 report from well-known, German, large-statistic portal Statista states that South Korea ranks as one of the most connected online markets with an online penetration of more than 84 percent. Besides that, the country boasts the highest average internet connection speed as well as the highest amount of available WiFi locations worldwide.

Having such outstanding online penetration and connection speed, the telecommunication companies in Korea face the daunting challenge of heavy data usage particularly that of video and music downloads. This requires a more powerful and reliable computing system to support such a massive demand.

The Situation

Our Korean customer, who provides server chassis and circuit technology for optimum Internet environments, built media recording systems for a telecom company. The function of these systems is to process the video, audio and image files which are used by the mass population. These large and numerous files are required to translate in high speed without any delay or interruption. For streaming usage, they need powerful and reliable DRAM for speedy data processing.



Our customer needs to deliver quality performance and high capacity with ECC function, but the small modules needed to fit 1U server blade DRAM are very rare in the market. Furthermore, due to the telecom industry requirements, every component in the system has to be fully ATCA compliant. Most DRAM module suppliers don't have DRAM products that can fulfill all of the specifications they require.

The Solution

Innodisk DDR3 1600Mhz ULP Mini-DIMM with ECC unbuffered memory fulfills their needs. Innodisk's Mini-DIMM series with very low profile (VLP) are designed for communications applications and are ATCA Compliant and are a mere .70" tall, making them suitable for the most space-constrained blade servers, routers, telecommunications, and networking devices. Even at this small size, the Mini-DIMM modules can reach 8GB capacity for higher memory densities. Through this product, we also prove that we have a close relationship with the supplier, providing this special and unique DDP IC for this series.

The Pay Off

Using the current vertical market knowledge, Innodisk's Mini-DIMM is tailor-made for communication applications benefitting the world-class telecom company through our exclusive specifications, including: ATCA compliance, very low-profile height and an extremely high capacity. This will produce a more reliable solution than using general-purpose made DRAM.

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