

## **GDDR6 TEST CHIP**



## **OVERVIEW**

The customer is one of the top electronic equipment manufacturers. They wanted to test graphic chip (GDDR6) to enhance the performance of the chip.

## **DESIGN FEATURE**

It was a complex project as this involved the first ever GDDR6 chip test using 8LPP technology. It involved additional requirements like:

- IP Max frequency of 6GHz and controller frequency of 1.5GHz
- Hierarchical based implementation with SOC and multiple Hard-macros
- Each block having >1 million instances



## CONTRIBUTIONS & OUTCOME

- Ownership of Time Constraints including the External IO interfaces
- Alignment with Package team on the bump placement
- Regular interaction with RTL and Program Management team based out of Korea
- > RTL development was in parallel to the PnR execution
- Very tight/difficult to meet 6GHz and 1.5GHz frequencies
  - CTS customization to reduce latency
  - SOC level CTS with Hard-macros to take care of Source-Synchronous interfaces
- Meeting the schedule for final phase & Customer Recognition and getting the work done in 6GHz

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