

## DATA SHEET

### PROTOCOLS

- HMC v1.0
- HMC v2.0

### DELIVARABLES

- Requester/Responder UVCs
- Memory model
- Back-Back Testbench
- Exhaustive Test Suite
- User Guide

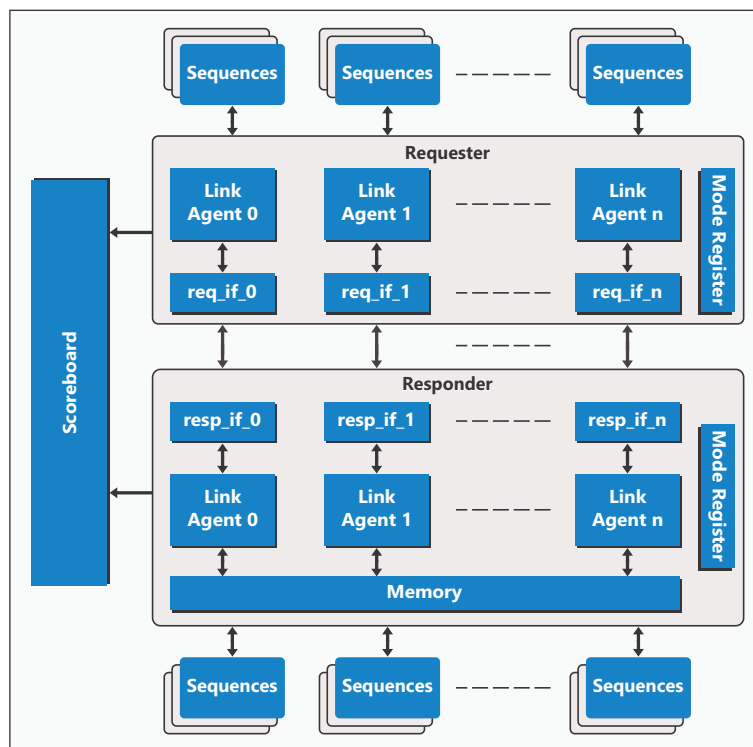
### SUPPORT

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### Description

azHMC is a UVM based verification component (UVC) that can be used by IP and SOC makers to test their HMC controller effectively and quickly. This easy-to-use UVC can be easily integrated to any UVM based environment and can be used to generate a variety of scenarios without much effort. Multiple instances of link agents in the UVC are supported. Can able to configure number of lanes in requester/responder agents. A memory model has also been included in the UVC on responder, which is used by all agents in responder.

### UVC Features

- Callback to support external slave memory.
- Callback for Scoreboard Support.
- Callbacks to modify the generated packet before writing into retry buffer (driver), crc calculation (driver), crc check (monitor).
- Ability to drop the packet before giving the packet to memory/scoreboard via callbacks.
- Supports packet ordering, sending write packet tag in read packet (only in HMC 1.0).
- Option to send response back to requester without user interruption.
- Packet tracker can be turned on to log the transmitted and received packets in each link.
- Supports multiple links.
- Option to send complete initialization sequence (includes cdr, scrambler, descrambler, link lock).
- Supports all HMC v1.0 and v2.0 commands (including atomic commands in v2.0).

### Configurability

- Configurable number of link agents.
- Configurable number of lanes per link.
- Option to use in built memory or external memory.
- Transmitter monitor (used only to monitor transmitted packets from its own agent).
- VIP supports both HMC v1.0 and v2.0, can be configured to work on any one of these HMC versions.