MEMORY & COHERENCY

RASIN Multi-Object Prepare / Commit Atomic Engine

N-participant prepare/commit/rollback architecture requiring all participating objects to be valid/ready before externally visible commit; distinct from single-address RMW atomics.

IP-4250 · Source / reference evidence · RTL / reference evaluation

Function and architecture

• N-participant prepare/commit/rollback architecture requiring all participating objects to be valid/ready before externally visible commit

• distinct from single-address RMW atomics

Integration summary

RASIN Multi-Object Prepare / Commit Atomic Engine provides the documented transaction / atomic ip responsibility: N-participant prepare/commit/rollback architecture requiring all participating objects to be valid/ready before externally visible commit; distinct from single-address RMW atomics. Evaluate the exact RASIN-MC-IP-004 implementation and confirm its integration contract before using it inside the target design.

Technical record

Canonical identity	IP-4250
Native implementation identity	RASIN-MC-IP-004
Documented responsibility	N-participant prepare/commit/rollback architecture requiring all participating objects to be valid/ready before externally visible commit; distinct from single-address RMW atomics.
Recorded evidence class	Source / reference evidence
Interface and physical parameters	Bound to the selected source/configuration; not inferred from name or family.

Delivery and release binding

• Exact implementation and configuration manifest

• Documented interfaces and clock/reset contract

• Available reference or verification collateral

• Recorded physical views where authorized and applicable

• Integration acceptance criteria and unresolved gate list

Confirm for the selected release: Source/configuration identity, Interface and dependencies, Verification evidence, Process/library where applicable, Authorized package and acceptance criteria.

Evidence and qualification

rasin-memory/continuum/multipdk/evidence September 1 branches + PR #8 frozen local evidence

Evidence shown is our record for this canonical implementation, not a fresh tool rerun. External foundry acceptance, silicon measurements, standards certification and unlisted interface/physical parameters are not inferred. Exact delivery and rights are agreed before licensing.

Canonical status: P1-P2 / SOURCE RTL + FROZEN LOCAL/REFERENCE EVIDENCE

Evaluation and licensing

Evaluation: Review the exact recorded implementation and agreed test scope. Production: Named-design rights for the agreed qualified release. Custom work: Target integration, verification or physical qualification. Rights, pricing, support and acceptance criteria are agreed for the exact scope.

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