MEMORY & COHERENCY

KOURAN Node/Package-Independent SRAM/PHY Boundary Architecture

Stable SRAM and streaming PHY wrappers isolate KOURAN digital logic from foundry/vendor memory and I/O hard macros so the architecture can target SKY130, N2, 18A-class and package-specific implementations.

IP-3649 · Source / reference evidence · RTL / reference evaluation

Function and architecture

• Stable SRAM and streaming PHY wrappers isolate KOURAN digital logic from foundry/vendor memory and I/O hard macros so the architecture can target SKY130, N2, 18A-class and package-specific implementations.

Integration summary

KOURAN Node/Package-Independent SRAM/PHY Boundary Architecture provides the documented physical integration / portability architecture responsibility: Stable SRAM and streaming PHY wrappers isolate KOURAN digital logic from foundry/vendor memory and I/O hard macros so the architecture can target SKY130, N2, 18A-class and package-specific implementations. Evaluate the exact KOURAN-IP-019 implementation and confirm its integration contract before using it inside the target design.

Technical record

Canonical identity	IP-3649
Native implementation identity	KOURAN-IP-019
Documented responsibility	Stable SRAM and streaming PHY wrappers isolate KOURAN digital logic from foundry/vendor memory and I/O hard macros so the architecture can target SKY130, N2, 18A-class and package-specific implementations.
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

Service-interface RTL + SKY130/N2/18A flow collateral.

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 / IMPLEMENTATION-BACKED BOUNDARY ARCHITECTURE; HARD MACRO CHARACTERIZATION EXTERNAL

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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