CPU & EXECUTION

NWAYO Semantic / Execution Separation Architecture

Separates permanent application-visible instruction semantics from optional execution-shape metadata so implementations and accelerators can evolve without redefining program meaning.

IP-3746 · Source / reference evidence · RTL / reference evaluation

Function and architecture

• Separates permanent application-visible instruction semantics from optional execution-shape metadata so implementations and accelerators can evolve without redefining program meaning.

Integration summary

NWAYO Semantic / Execution Separation Architecture provides the documented execution / compatibility architecture responsibility: Separates permanent application-visible instruction semantics from optional execution-shape metadata so implementations and accelerators can evolve without redefining program meaning. Evaluate the exact NWAYO-IP-002 implementation and confirm its integration contract before using it inside the target design.

Technical record

Canonical identity	IP-3746
Native implementation identity	NWAYO-IP-002
Documented responsibility	Separates permanent application-visible instruction semantics from optional execution-shape metadata so implementations and accelerators can evolve without redefining program meaning.
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

Evidence retained in our records

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 ARCHITECTURE

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.

Contact: patrick@garmolabs.com | Product path: /ip/nwayo-semantic-execution-separation-architecture-ip-3746