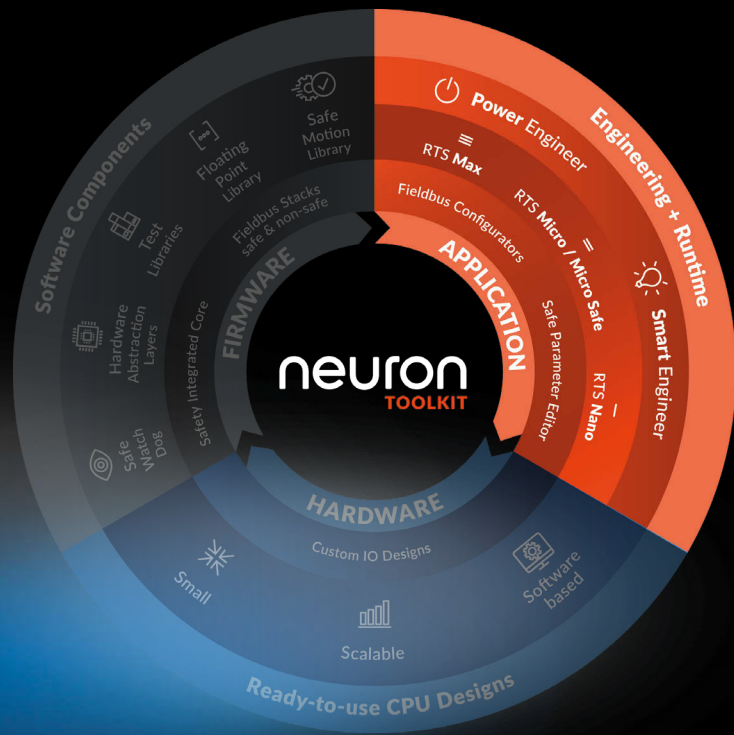


RTS nano



Summary

To build the bridge between our Engineering Tools and the PLC hardware Neuron also offers a variety of runtimes. Also our runtimes secure management of I/O addresses is part of runtime systems. Neuron RTS nano is our smallest runtime solution for execution of plc programs on embedded micro controllers.

Main benefits at one glance

RTS nano is Neuron smallest runtime for execution of simple non-safe IEC and C applications on small micro controllers. The runtime wraps the PLC application and provides a C interface that can be called from an external application.



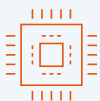
Running on target



Easy to integrate into new and existing systems



Flexible and highly scalable



Open connectivity and extensive usability for plug-in interfaces and system services



Virtualization from the controller to the cloud

Scalable down to smallest footprints like sensors

Decouple application from firmware and share commonality with other runtime systems by reusing libraries and programs

Allow IEC programming with minimal overhead compared to traditional embedded firmware development in C requiring special development resources and tools

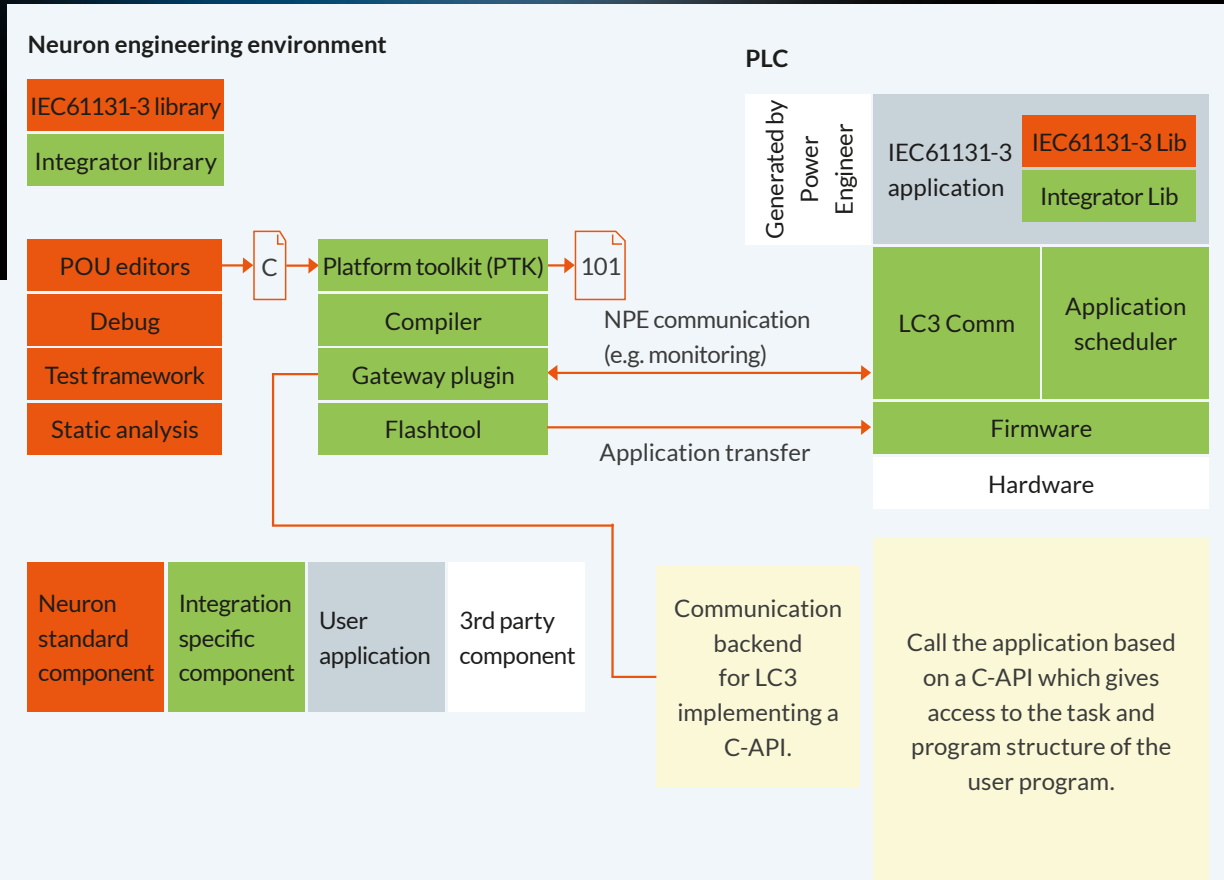
Benefit from all other features provided in the Neuron engineering tools (e.g. test framework, simulation, interface to Matlab / Simulink, etc.)

Hardware independence and scalable performance from micro controllers to ARM processors

Commonality for libraries and programs with other Neuron runtime systems

Your Solution Partner for Functional Safety, Engineering Tools & Runtimes

Architecture



Specifications

- Single- or multitasking system depending on integration-setup
- Communication with external IO through API
- Extensible by the integrator

- Integrator can implement its own runtime system
- Very small footprint depending on used functions (about 250 byte ROM and 32 byte RAM)