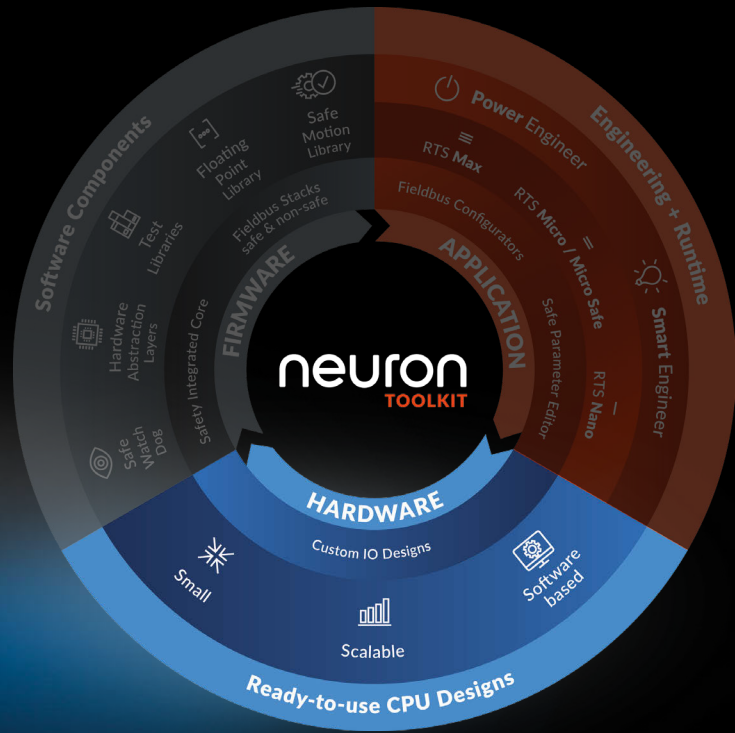


# Scalable safety controller



## Summary

Our scalable hardware module is designed to be customized into a high end safety plc or safe robotic controller. The dual channel architecture is realized through a multicore ARM processor combined with an intelligent watchdog. Digital inputs and outputs, analog inputs, encoder interfaces can be added. Multiple Fieldbus protocols can be integrated easily. Optionally a standard linux based plc runtime is available.

## Main benefits at one glance



High-performance design



Shorter time-to-market due to precertification



Various interfaces



Precertified to reach up to SIL3/PLe



Functional safety

Single processor with three main advantages: Cost efficiency, Small footprint (small installation space), Very low heat generation

Customers choice between main storage options (onboard or external via SD-interface)

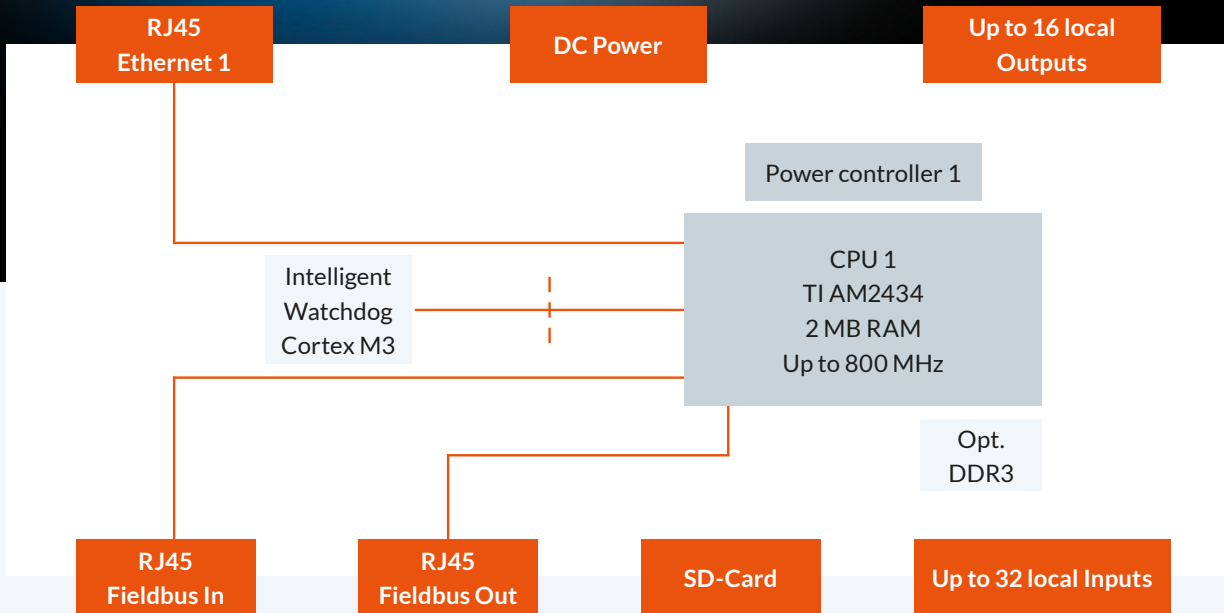
Customized to install in existing standard designs

Compact high-performance design

Shorter time-to-market due to precertification to achieve high safety levels up to up to PLe according to ISO 13849 or SIL3 according to IEC 61508-1 standard

# Your Solution Partner for Functional Safety, Engineering Tools & Runtimes

## Functional overview



## Specifications

CPU: Single Quad-Core ARM Axx CPU with intelligent safety Watchdog (Cortex M3)

RAM: internal 2MB, optional extension with external RAM (DDR3) up to 4GB

Digital IO: 48 digital TTL input/output with related test inputs/outputs in various configurations like 24 inputs and 24 outputs or any other combination e.g.: 32 inputs and 16 outputs

Sensor connections: 2 SSI/BISS-C interfaces for various sensors such as encoders

Ethernet-Interface: Yes

Fieldbus interface: two independent fieldbus protocols (safe and standard)

USB interface for programming/parameterization: optional

Internal overvoltage protection for the supply voltage: Yes