

Dynamics
Antriebs- und Regelungstechnik



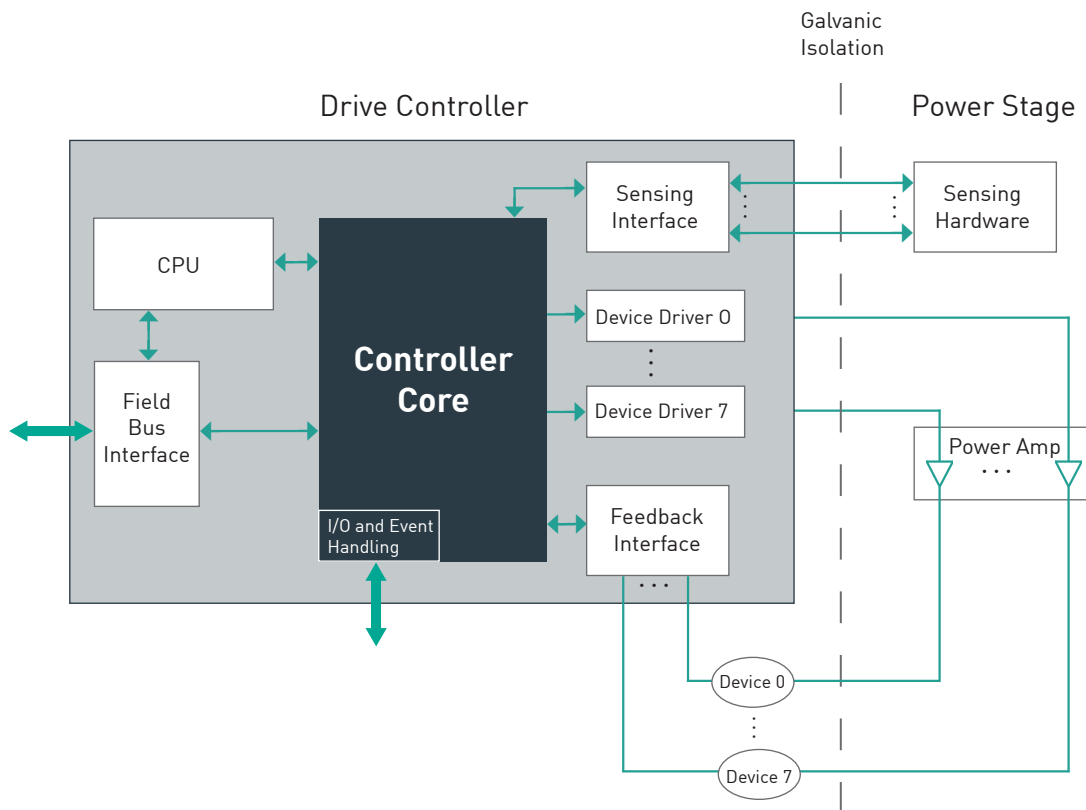
DYNAMICS CORE

Drive Controller IP Core



The Pantec Dynamics Drive Controller offers highest performance in drive control without the usual cost of flexibility. Based on FPGA (Field Programmable Gate Array) logic that allows control rates up to 200 kHz, multiple different motor types combined with various feedback systems as well as solenoid devices can be controlled.

Additionally the flexible FPGA environment allows adaptable interconnection to common fieldbus systems like EtherCAT and POWERLINK. Another benefit in selecting the Pantec Dynamics Drive Controller is the high flexibility in realizing complex customer demands. This leads to a significant reduction in time-to-market and overall costs.



Features

- up to 8 synchronized device controllers up to 200 kHz
- microstepping for stepper motors
- high resolution PWM for dynamic requirements
- monitoring current, temperature and voltage
- interfacing various position feedback systems like encoder and resolver signals
- controlling brushed- and brushless-DC, 2- and 3-phase stepper motors as well as solenoid devices
- field oriented control (FOC) of brushless-DC motors for optimized torque generation
- low-latency error handling and position latching
- interfacing analog and digital I/Os
- flexible fieldbus integration