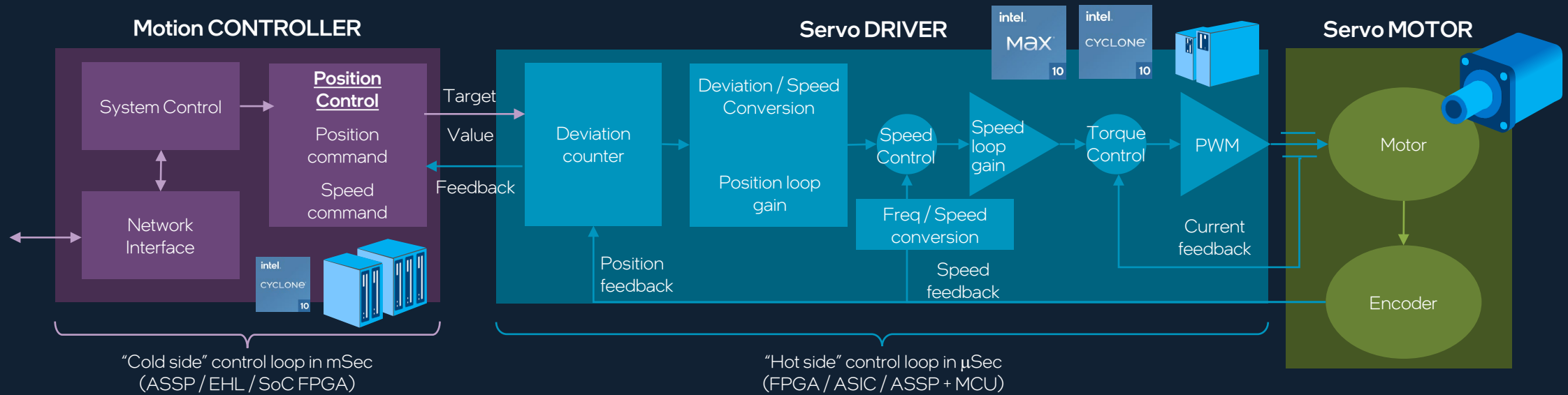


Motor Drive, Computer Numerical Control (CNC)



Technology Trend

- Higher speed, higher precision, more axes
- AI for adaptive control and self-diagnosis
- Flexibility, for tool reconfiguration and manufacturing-on-demand

Why Intel® FPGA?

- Deterministic, multi-axis control
- Industrial network protocols (TSN, Industrial Ethernet, field bus, encoders, ...)
- Safety Certified SKUs. Functional Safety Data Pack
- Industrial environment; including 3.3V I/O for harsh electromagnetic conditions
- Long Product lifecycles and high reliability

Intel® FPGA Value and Ecosystem

- Safe Drive on Chip reference design from Intel
- [Drive on a Chip](#): Deterministic low latency (μSec) motor control reference design from Intel
- [FSDP \(Functional Safety Data Pack\)](#): IEC61508 certified devices, Tools, and IP from Intel
- [NewTec](#) for FuSa partner
- [TSN](#), Industrial Ethernet, and [ExpEther](#) solutions for networking