ROBOTICS

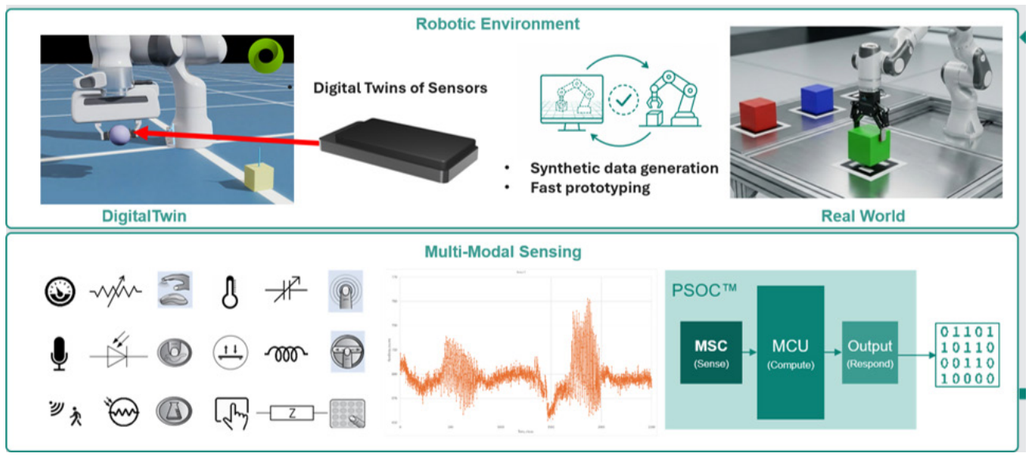
Tactile digital twin enabling robotic manipulations

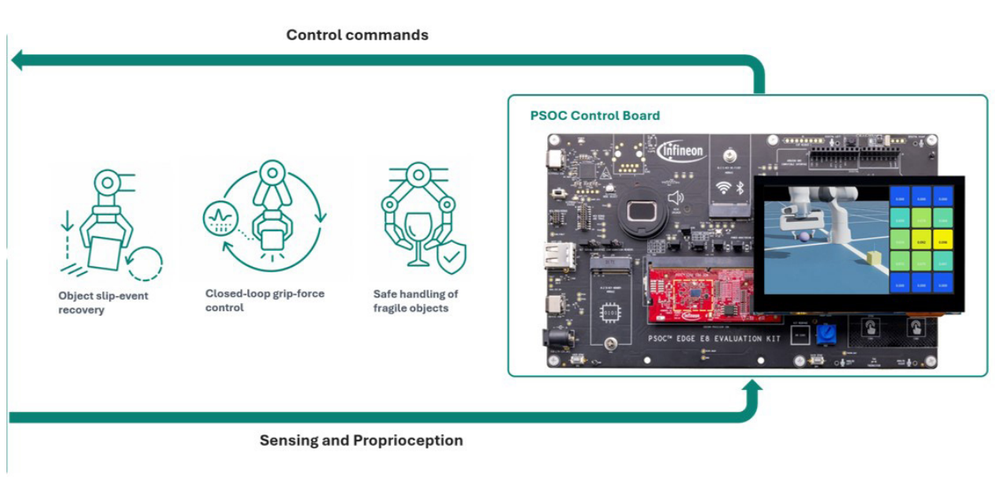
Our broad, best-in-class PSOC™ MCUs with Multi-Sense architecture and XENSIV™ sensor technologies, mirrored by their digital twins in Omniverse, enable multi-modal human-like perception and contact-rich robotic manipulations. PSOC™ Edge and DEEPCRAFT™ Studio bring AI/ML to the edge.

Benefits
- Industry-best signal-to-noise ratio
- Industry-best low power with always-on sensing
- Digital twin for fast prototyping and synthetic data generation
- Broad range of sensing modalities
- Reliable, flexible, easy design experience
- Optimized form factor and cost

Highlight products
- PSOC™ MCU with Multi-Sense
- PSOC™ Edge E84 MCU
- XENSIV™ sensors
- REAL3™ ToF sensors
- DEEPCRAFT™ Studio
- Digital twins

Applications
- Robotics, industry, consumer
- Humanoid tactile and e-skin interfaces
- HMI
- Edge intelligence
- Enhanced system simulation capabilities
- Safe human-robot interaction
- Precision with assembly tasks
- Blind material recognition





Scan for more information