ROBOTICS

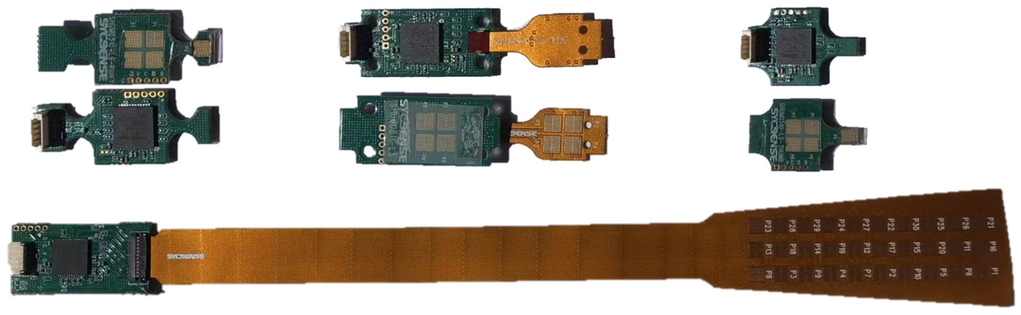
E-skin and tactile sensing solution for robotic hands

Our ecosystem partner Sycsense has successfully produced a market-ready electronic skin (e-skin) technology for dexterous robotic hands. Its ultra-thin, highly sensitive sensors featuring a wide 0.01–2 MPa sensing range and exceptional linearity, paired with our PSOC™ MCU with 5G CAPSENSE™, enables unprecedented levels of precision and responsiveness in tactile perception.

Benefits
- High precision, excellent linearity, ultra-low power, and high scalability
- Wide range of force measurement
- PSOC™ 4 MCU with an industry-best signal-to-noise ratio and lowest power with always-on sensing
- ModusToolbox™ CAPSENSE™ Configurator and Tuner for fast development

Highlight products
- PSOC™ 4000T MCU
- PSOC™ 4100T MCU

Applications
- Humanoid robot skin for touch and tactile sensing experience
- Tactile sensing for dexterous hands and end-effectors in humanoids and industrial robots
- Wearable touch control





Scan for more information