



# NEXT-GEN HIGH-PRECISION LOW-POWER ULTRA-WIDEBAND

Imec pioneers ultra-wideband (UWB) impulse radio (IR) technology for next-generation products which require secure distance bounding and high-precision, agile spatial awareness capabilities based on secure and precise wireless distance measurement or 2D/3D localization. Imec's ultra-low power (ULP) circuit solutions offer 10x lower power consumption (<5mW Tx, <20mW Rx) than state-of-the-art products. Advanced localization algorithms to achieve 2x improved accuracy in challenging environments (<6cm). Based on imec's >15-year R&D track record on UWB technology, imec offers partners a wide portfolio of UWB hardware and software IP.

## APPLICATIONS

- Secure Access and Mobile Payments
- VR/AR Gaming
- Indoor Location and Asset Tracking
- Hospital 5.0
- Industrial Micro-location - Robotics, drones



| Contactless payment

