



The SVP7000 Series is an advanced Al processor for PCs, IoT devices, and security cameras, enhancing awareness, efficiency, and security. Its multi-modal Al sensing optimizes power, privacy, and real-time decision-making, even when devices are off. Key features include intelligent presence sensing, which activates devices only for engaged users, and continuous facial recognition that verifies the primary user without keeping the camera on. With NIST+ encryption and on-chip Al processing, it ensures federal-grade security while optimizing performance. Seamlessly integrating with any system, the SVP7000 Series supports external displays, smart spaces, and diverse sensors. Built on native Windows APIs and Synaptics drivers, it eliminates OEM software dependencies. A dual-processor, multi-core NPU architecture and extensive interfaces simplify development while enabling OEM differentiation.



- NIST+ on-chip Al processing for federal-grade security
- Ultra-low power for longer battery life
- Seamless USB, IPU, and smart space integration
- Native Windows API support—no downloads needed

Applications

- ULP Human Presence Detection (HPD)
- Biometric co-processor
- Digital Wellness and privacy alert vision monitor
- Low-power Al vision processor for security and IoT cameras
- Audio sensing
- IoT devices
- Battery-operated security devices



CONSTANTLY EXECUTES AI PROCESSING



WINDOWS ECOSYSTEM-READY: PLUG 'N' PLAY



PERFORMS CONTINUOUS FACIAL RECOGNITION



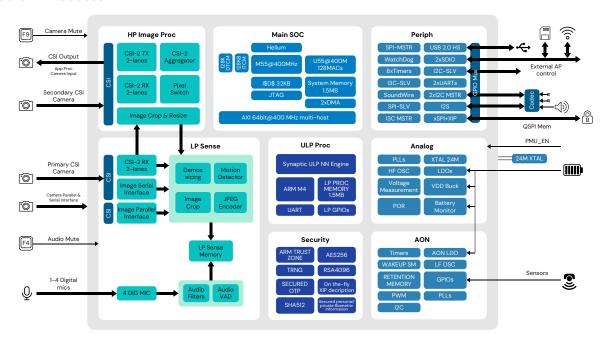
ENHANCES PRESENSE SENSING WITH AI SIGNALS

Features

- Dual-NPU, Multi-Core Architecture: Rich interfaces for seamless Windows™ integration across any PC chipset and image sensor
- Cost-Effective Single-Chip Design: Combines computer vision, audio acceleration, MIPI CSI redriver, MCU, and USB/I2C/I3C GPIO expansion
- Always-On Al Processing: Continuously analyzes visual, audio, and sensor data for power efficiency, readiness, and security—even when the host is off.
- Integrated USB Controller: HID-class support ensures plug-and-play compatibility with Windows 11 Presence Sensing.
- Effortless OEM Integration: Plug-andplay drivers with Windows API support enable easy customization and third-party software compatibility. On-Chip Biometric Authentication: Verifies users without a camera, enrollment, or PII transmission.
- Al-Driven Performance: Delivers accurate. responsive interactions with rich metadata for personalization.
- Hardened Security: Exceeds US Federal Grade standards with NIST SP800-193 compliance.
- Multi-Sensor Integration: Syncs with external displays and accessories for a seamless Smart Space experience.

Synaptics SVP7x00

Multi-Core Al Processor



System Block Diagram



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