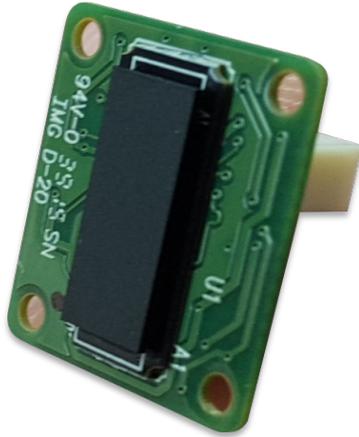


IronVeil

Product Brief



Overview

Synaptics IronVeil™ products deliver a highly convenient user experience with their quick and simple touch authentication methodology. Rather than remembering passwords to unlock a PC, it will unlock at the touch of a finger.

The compact sensor form factor enables OEMs to integrate IronVeil into a wide variety of devices. It enables OEMs to deliver the most compelling and highly-differentiated devices to the market, with excellent performance and low costs.

Applications

The IronVeil solution is designed to provide a secure and easy-to-use fingerprint authentication solution for CE devices. It is optimized for integration into a PC peripheral product like a mouse, keyboard, or monitor. IronVeil fingerprint sensors are modular fingerprint sensors mounted to an FR4 carrier.

High-Performance Area Touch Sensor

- Easy-to-use area touch fingerprint sensor.
- 10 mm x 4 mm imaging area
- Advanced matcher and enrollment for industry-leading False Accept Rate (FAR) and False Reject Rate (FRR) performance.

Features and Benefits

Small Form Factor Fingerprint Sensor

Low-profile and small-footprint packaging supports integration into the tightest, most challenging spaces.

Discrete or System LED Options

Driving your device's LED scheme to be aligned with the fingerprint state (Match, No Match, Waiting for Finger) or for a simpler approach, use the onboard LED for critical user feedback.

Easy Integration

Its compact size and shape make IronVeil compatible with a wide range of device types, and enable integration into space-constrained applications.

High Security, Advanced Matching Algorithm

- RSA-2048 public key cryptography for key exchange, authentication, and data validation with unique keys for every sensor.
- AES-256/SHA-256 encryption.
- SSLv3 for secure session establishment.
- Multiple one-time-password standards and technologies supported (OCRA, HOTP, TOPT).
- Physically Un-clonable Function (PUF) generates unique 512-bit output; used to generate keys.
- Secure ownership change protocol.
- Secure, encrypted template storage.

Proven Technology

With over a decade of experience in designing and testing solutions, Synaptics has an unprecedented track record of getting devices to market. Synaptics' trusted capacitive touch sensing technology is used in over one billion devices.