The BioPrint SW6888 swipe-type fingerprint IC solution is designed to provide fingerprint authentication and mouse-pad navigation functionality in power-sensitive and small form-factor application environments, such as mobile handsets, PDAs, laptop computers and direct-attached storage devices. The SW6888 combines proprietary sensing technology with ruggedized, small form factor design and leading-edge software identification algorithms, providing customers with a full fingerprint identification solution. The SW6888 swipe sensor was designed to be the most accurate, easily integratable, cost-effective fingerprint solution available for computing, consumer electronics and mobile devices.

BioPrint™ SW6888

Security and Convenience at Your Fingertips

www.symwave.com
Leading-Edge Technology
High-Performance
The SW6888 is based on Symwave’s proprietary Field-Switched sensing architecture which enables the sensor to capture high-resolution fingerprint scans under the widest range of environmental operating conditions.

Small System Footprint
The SW6888 employs data binarization technology and on-chip still-motion detection capability that minimizes the solution’s impact on the overall power budget and processing resources of the host CPU system.

Full System Solution
The SW6888 is bundled with Symwave’s industry-leading fingerprint identification algorithms and easy-to-navigate user software and graphical interfaces. The BioPrint product provides customers with a full design-in-ready fingerprint system, with no additional hardware or software required.

Enables New Applications
Target Devices
- Micro-drives/memory sticks
- Mobile handsets
- External HDD

Mobile Handset
The BioPrint SW6888 enables a new generation of flexible, secure mobile applications, to include:
- Device access security
- Secure mobile commerce
- Mobile gaming
- Mobile location services

With its integrated mouse-pad functionality, the SW6888 offers a new generation of PC-like applications for mobile devices. The SW6888 elevates the mobile user’s experience to a new level with navigation-intensive applications such as web browsing, mobile location/mapping services and mobile gaming.

Micro Memory Drives
With its industry-leading ultra-small form factor and multi-interface capability, the SW6888 also provides an ideal platform for embedding a layer of security in PC peripherals, such as USB flash drives and USB-based ‘personal servers’.

Design
ESD
The SW6888 employs a proprietary in-silicon ESD structure enabling the sensor to operate in wide array of applications and environments.

Package
The SW6888 uses a small form-factor rugged package design optimized to mount within a wide range of device moldings.

Multi-Interface
The SW6888 provides connectivity to each of the standard device interfaces...
- Serial (SPI)
- Flash
- Parallel (8-bit)
...critical for devices such as USB memory sticks and mobile handsets where interface flexibility is limited.

Cost Effective Solution
The SW6888 represents multiple industry firsts in analog/mixed-signal design. With its integrated ESD and optimized 16-row pixel array design, the SW6888 achieves reduced system complexity, part-count and package assembly cost. As a result, the SW6888 represents the mobile device industry’s most cost-effective integrated fingerprint-mouse pad solution.

Evaluation Kits
Symwave currently offers several reference designs for Customers to evaluate the SW6888. Customers can receive SW6888 Golden Finger and Silver Finger Evaluation Kits (EVKs) and Software Development Kits (SDKs). EVKs and SDKs are available upon request.